



SERIES 8
890

LED TV

Installation manual



imagine the possibilities

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www.samsung.com/register

Model _____ Serial No. _____

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Introduction

This TV has functionality that lets it interact with a set-back box (SBB/STB) and with other TVs in a computer-controlled system for hotels and other hospitality businesses.

Interactive : When the TV is powered-up initially, it sends a command to identify the connected SBB/STB. If it identifies the SBB/STB, the TV switches to ONLINE mode which gives full control of the TV to the SBB/STB.

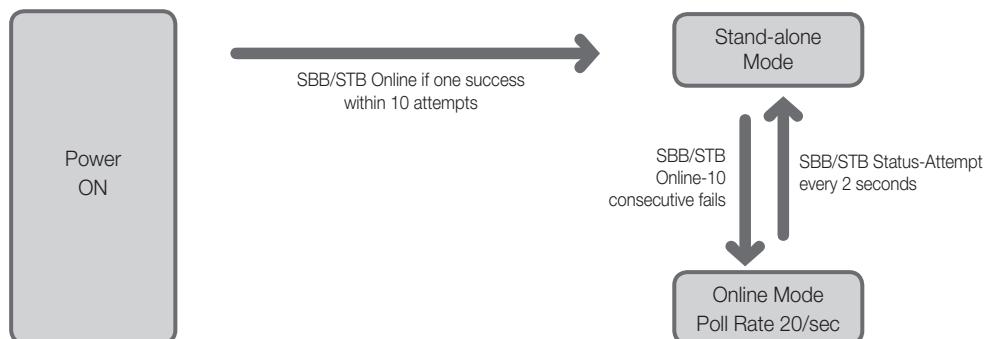
When the TV is in ONLINE mode, it stops accepting IR (Samsung remote) commands and acts according to the interface protocol.

Stand-Alone: If you are not using an SBB/STB and the TV cannot or does not identify an SBB/STB, you should switch the TV to STAND-ALONE mode with restricted operation.

Operational Modes

When this TV is in Hotel mode and is operated with an SBB/STB, it is in one of two states: ONLINE or STAND-ALONE

- In the STAND-ALONE state, the TV will act as a Hotel TV, but without active communication. This is to prevent guests from trying to cheat the system by disconnecting the SBB/STB.



To set the options for Stand-alone or Interactive (Online) mode, refer to pages 19-23 (Setting the hotel option data : Menu Items.)

- You can restrict all (or some) operations to prevent guests from "cheating" the TV system.
- You can set Volume limits and lock or unlock the Panel buttons.

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 format images, stock or news bars or crawls) on the screen. Displaying still pictures continually can cause uneven screen wear, which will affect image quality. To reduce the chance that this effect will occur, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display a full screen image.
- Reduce brightness and contrast to help to prevent the occurrence of after-images.
- Use all TV features designed to reduce image retention and screen burn-in. Refer to the proper user manual section for details.

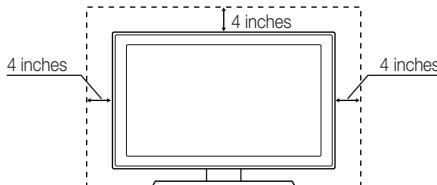
Ensuring Proper Ventilation

When you install the TV, maintain the distances shown below between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to do so may result in a fire or problems with the TV caused by an increase in its internal temperature.

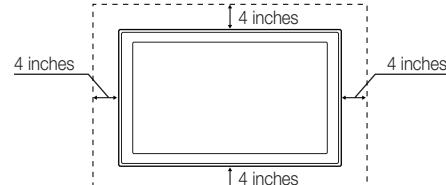
When using a stand or wall-mount, use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may cause a problem with the product or cause the product to fall, leading to serious injury.

Installation with a stand.



Installation with a wall-mount.



Additional Information

The appearance of the TV and its accessories may differ from the illustrations in this manual, depending on the TV.

Be careful when you touch the TV if it is on or has been on for a period of time. Some parts can be hot.

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Symbols Used in this Manual

TOOLS



Indicates that you can press the TOOLS button on the remote control to use this function.



Note



One-Touch Button

Accessories

- ☛ Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.
- ☛ The items' color and shape may vary, depending on the model.
- ☛ The parts for the stand are listed under Stand Components on the following page.

- Remote Control (AA59-00817A) & Batteries (AAA x 2)
- Smart Touch Control (AA59-00830A) & Batteries (AAA x 2)
- Owner's Instructions
- Power Cord
- Data Cable (BN39-00865B, BN39-01011C)
- Warranty card / Safety Guide / Quick Setup Guide
(Not available in all locations)



Screw Cover (2ea)



Cable clip



Wall mount adapter (2ea)



TV holder kit



Power inlet cover

Installing the LED TV Stand

Components

When installing the stand, use the provided components and parts.



1 EA



2 EA

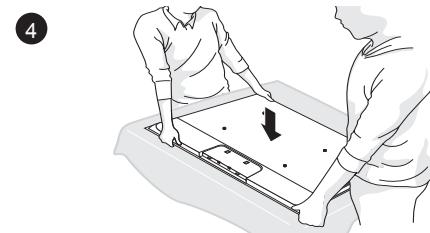
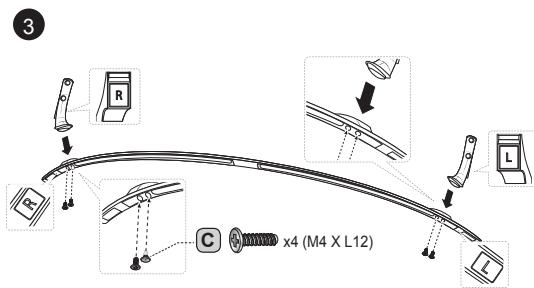
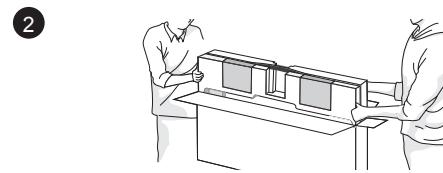
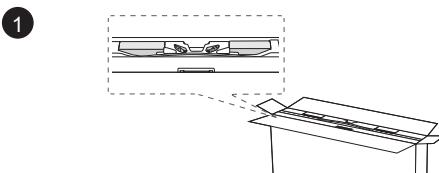


x8 (M4 X L12)

- Stand (depending on the model)

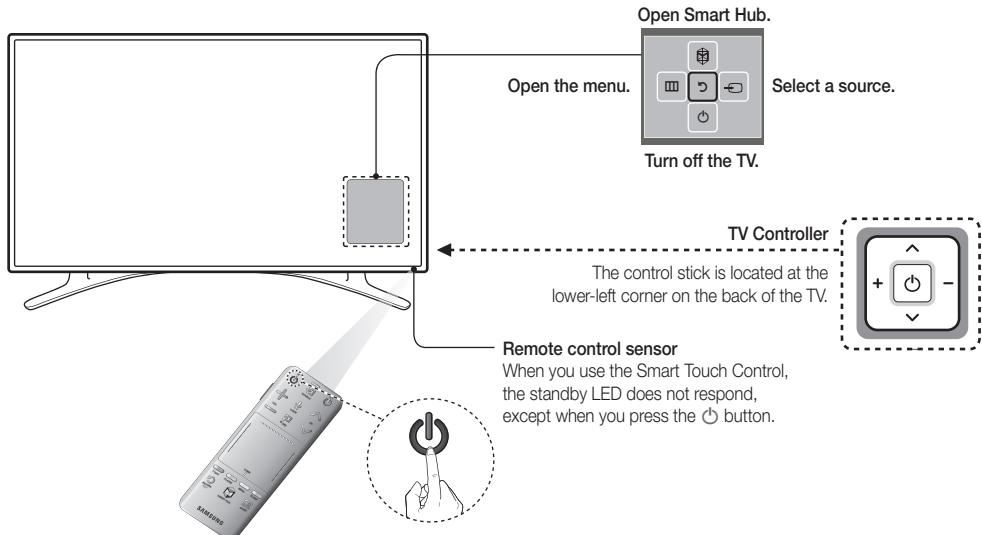
- Guide Stand

- Screws



Using the TV's Controller

- The color and shape of the TV Controller may vary depending on the model.
- The TV's Controller, a small joy stick like button on the bottom right side of the TV, lets you control the TV without the remote control.



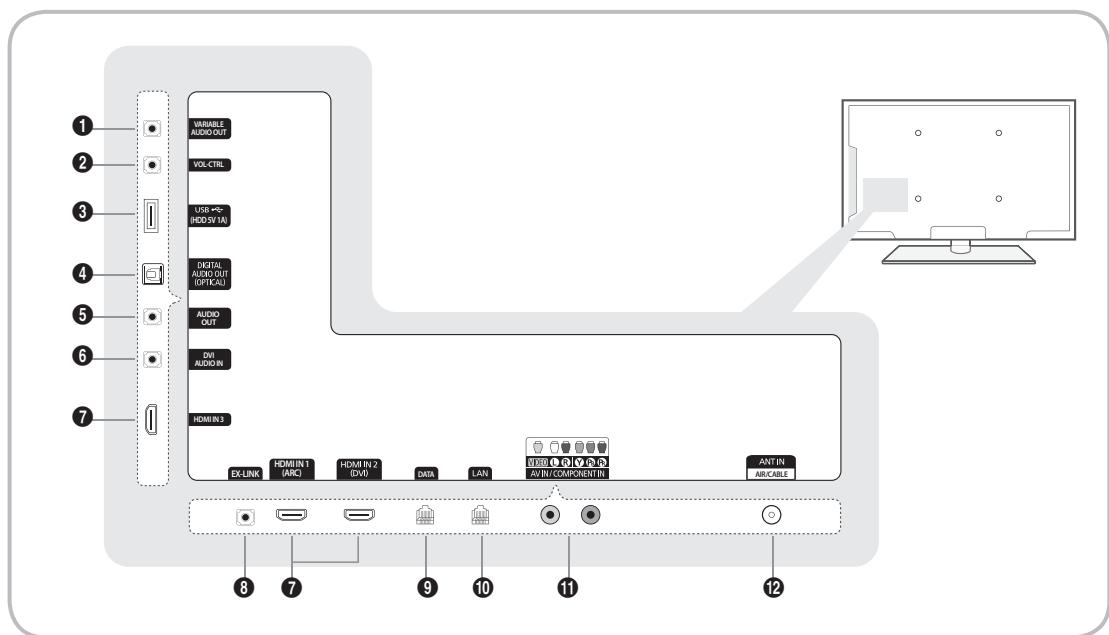
Power on	Turn the TV on by pressing the Controller when the TV is in standby mode.
Adjusting the volume	Adjust the volume by moving the Controller from side to side when the power is on.
Selecting a channel	Select a channel by moving the Controller backwards and forwards when the power is on.
Using the Function menu	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
Selecting the MENU (☰)	With the Function menu visible, select the MENU (☰) by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or backwards and forwards to make additional selections. To change a parameter, select it, and then press the Controller.
Selecting the SMART HUB (Ⓜ️)	With the Function menu visible, select SMART HUB (Ⓜ️) by moving the Controller upwards. The SMART HUB main screen appears. Select an application by moving the Controller, and then pressing the Controller.
Selecting a Source (➡)	With the Function menu visible, open the Source screen (➡) by pushing the Controller to the right. The Source screen appears. To select a source, move the Controller back and forth. When the source you want is highlighted, press the Controller.
Power Off (ⓧ)	With the Function menu visible, select Power Off (ⓧ) by pulling the Controller forwards, and then press the Controller.

To close the Menu, **SMART HUB**, or Source, press the Controller for more than 1 second.

Standby mode

Your TV enters Standby mode when you turn it off, and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

The Connection Panel



☞ Whenever you connect an external device to your TV, make sure that power on the TV and the device is turned off.

☞ When connecting an external device, match the color of the connection terminal to the cable.

- ❶ **VARIABLE AUDIO OUT:** Used for the audio output to the Bathroom speaker. Connect the Bathroom Wall Box and the Variable port (RCA).
- ❷ **VOL-CTRL:** Used to control the volume of the Bathroom speaker. Connect the Bathroom Wall Box and the VOLCTRL port.
- ❸ **USB (HDD 5V 1A)**
 - Connector for software upgrades and Media Play, etc.
 - Service connection.
- ❹ **DIGITAL AUDIO OUT (OPTICAL):** Connects to a Digital Audio component.
- ❺ **AUDIO OUT:** Connects to the audio input jacks on an Amplifier/Home Theater.
- ❻ **DVI AUDIO IN:** Connects to the audio input jacks on an Amplifier/Home Theater.

⑦ HDMI IN 1 (ARC), 2 (DVI), 3: Connects to the HDMI jack of a device with an HDMI output.

☞ No sound connection is needed for an HDMI to HDMI connection. HDMI connections carry both audio and video.

☞ Use the **HDMI IN 2(DVI)** jack for a DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for the video connection and the **PC/DVI AUDIO IN** jacks for audio.

⑧ EX-LINK: The EX-LINK connection is for service only.

⑨ DATA

- Used to support data communication between the TV and the SBB.
- Connects using RJ-12 TV type plugs.

⑩ LAN: Connect to a wired LAN using CAT 5 cable.

⑪ COMPONENT IN / AV IN

- Connect audio cables to "R-AUDIO-L" on your TV and the other ends to corresponding audio out jacks on an A/V device.
- Connects Component video / audio.
- The **COMPONENT IN** jack is also used as the **VIDEO 1** jack.
- Connect component video cables (optional) to the component jacks ("P_R", "P_B", "Y") on the rear of your TV and the other ends to corresponding component video out jacks on a DVD player.
- If you want to connect both the Set-Top Box and a DVD player, you should connect the Set-Top Box to the DVD and connect the DVD to the component jacks ("PR", "PB", "Y") on your TV.
- The PR, PB and Y jacks on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of the TV set and the other ends to corresponding audio out jacks on the external device.
- When connecting to AV IN, the color of the AV IN [Y/VIDEO] jack (Green) does not match the color of the video cable (Yellow).

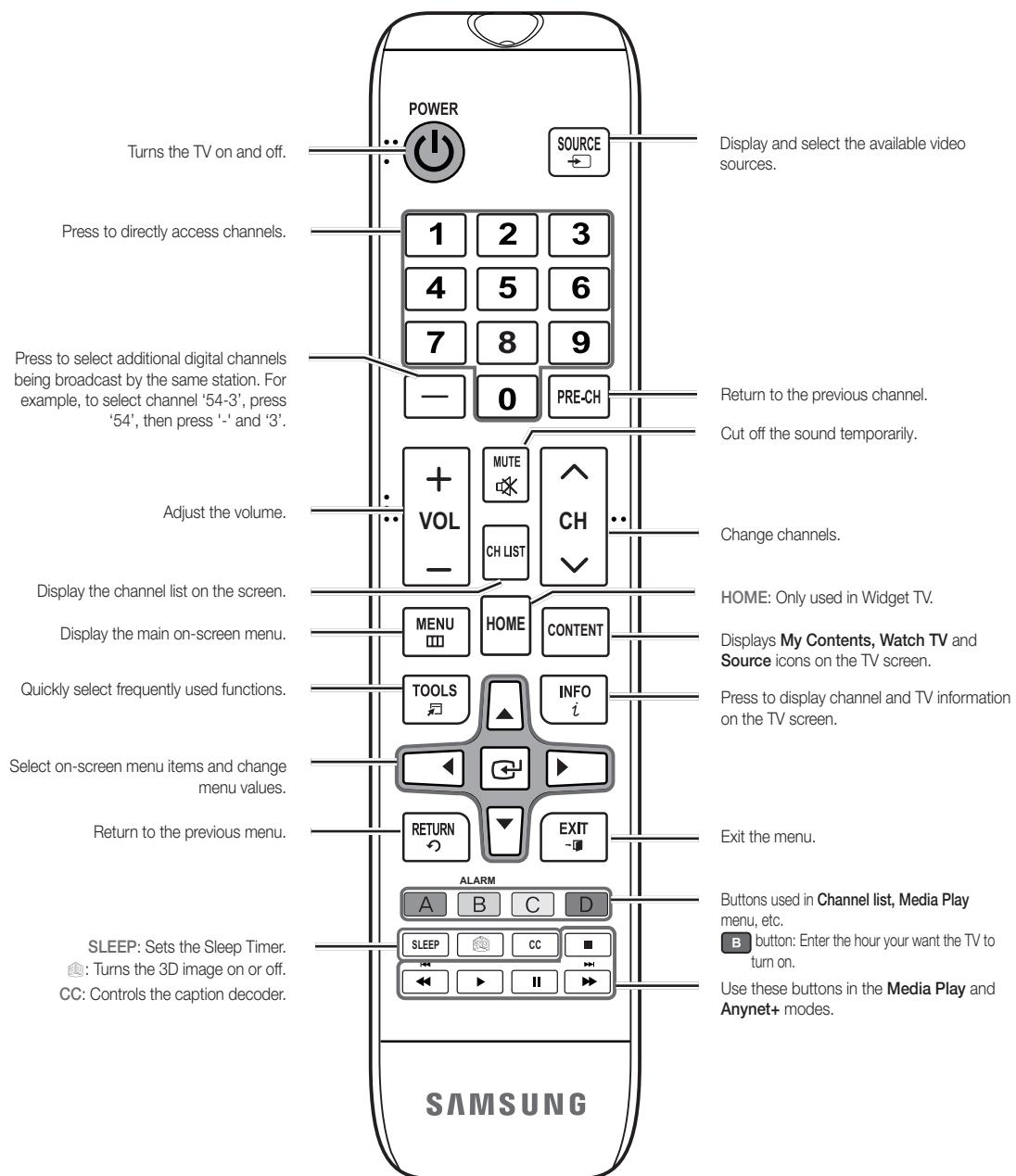
⑫ ANT IN (AIR/CABLE)

- To view television channels correctly, the TV must receive a signal from one of the following sources:
- An outdoor antenna / A cable television system / A satellite receiver

The Remote Control

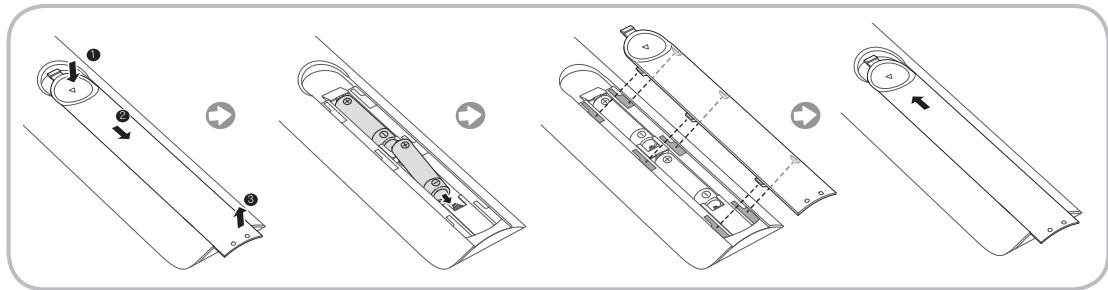
Remote Control (AA59-00817A)

 This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired customers.



Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.



After you have installed the batteries, use a screwdriver to screw in the screw that holds the battery cover closed.

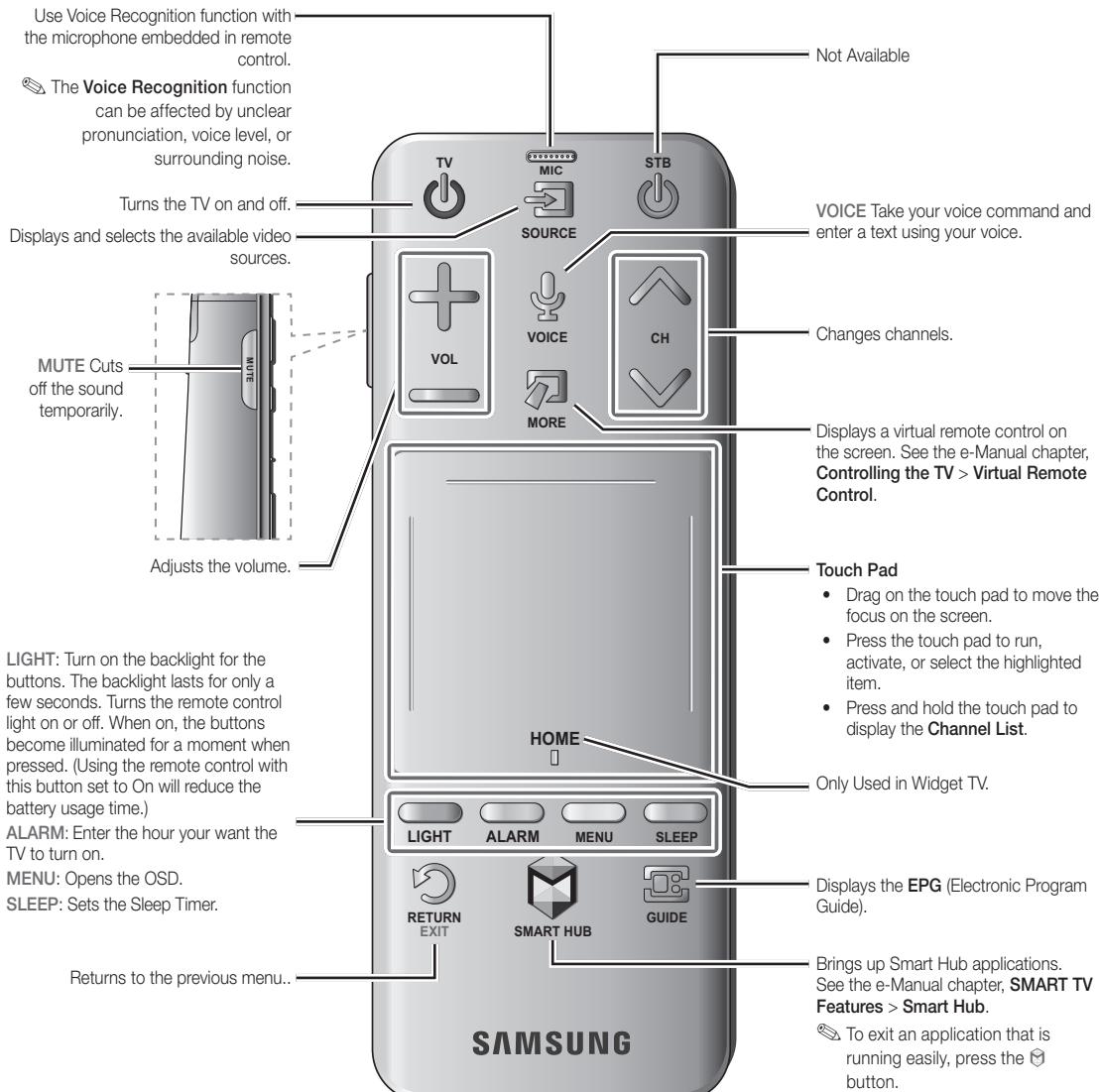
NOTE

- Use the remote control within 23~33 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

Using the Smart Touch Control

Smart Touch Control (AA59-00830A)

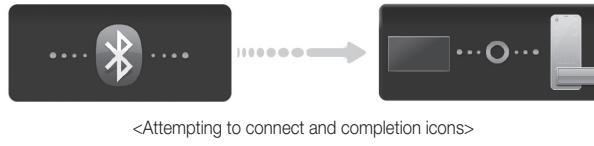
 This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired customers.



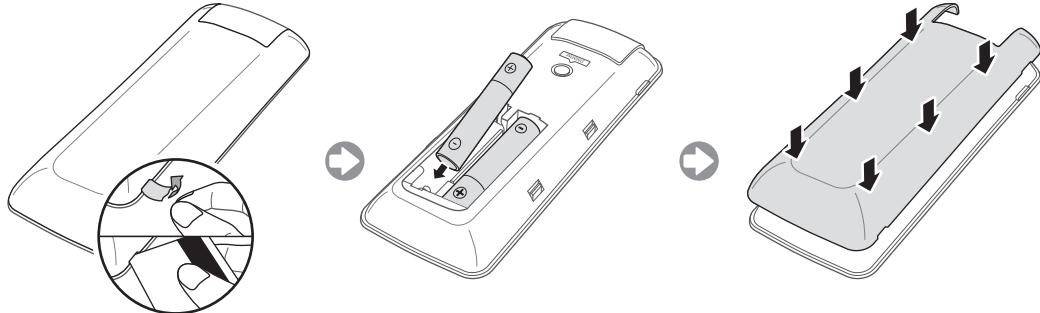
Connecting to the TV

In order to operate the TV using a Smart Touch Control, you must first pair it to the TV via Bluetooth. However, the Smart Touch Control is only available for the paired Samsung TV.

1. To turn on the TV, point the Smart Touch Control at the remote control receiver of the TV and press the  button.
The remote control receiver's location may vary depending on the model.
2. A Bluetooth icon will appear at the bottom left of the screen as shown below. The TV will then attempt to connect to the Smart Touch Control automatically.



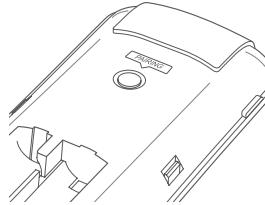
Inserting the Batteries (AAA X 2)



1. Slightly lift the battery cover by pulling the strap or by inserting a plastic card (e.g. a credit card) into the notch on the side of the remote and twisting the card slightly. Next, grasp the loosened cover in one hand and the top of the remote in the other and gently pull them apart.
2. Insert 2 AAA batteries, making sure to align the positive and negative ends correctly.
3. Align the battery cover with the back of the remote control, and then press down along the edges until it is completely attached to the remote control.

Reconnecting the Smart Touch Control

If you need to reestablish the connection between the TV and the Smart Touch Control, press the pairing button at the back of the Smart Touch Control, pointing at the remote control sensor of the TV.



<The Smart Touch Control's pairing button>

The pairing button can be accessed by removing the Smart Touch Control's battery cover. Pressing the pairing button automatically reestablishes the connection between the Smart Touch Control and the TV.

Low Battery Power Warning

If the battery becomes low while using the Smart Touch Control, the following alarm window appears at the bottom of the left screen. If the alarm window pops up, replace the batteries of the Smart Touch Control. Use alkaline batteries for longer usage.



<Low battery alarm window>

Using the touch pad

Use the touch pad to implement various commands. Navigate to **Tutorial (System > Device Manager > Smart Touch Control Settings > Tutorial)** to view an on-screen guide to using the Smart Touch Control.

Dragging	Tap
	

Drag on the touch pad to move the focus, pointer, or highlight in the direction the finger is dragging.

Press the touch pad to select the item highlighted or in focus. When watching TV, press and hold the touch pad for 2 seconds displays the channel list. On some apps, press and hold the touch pad for 2 seconds displays a list of functions available for the app.

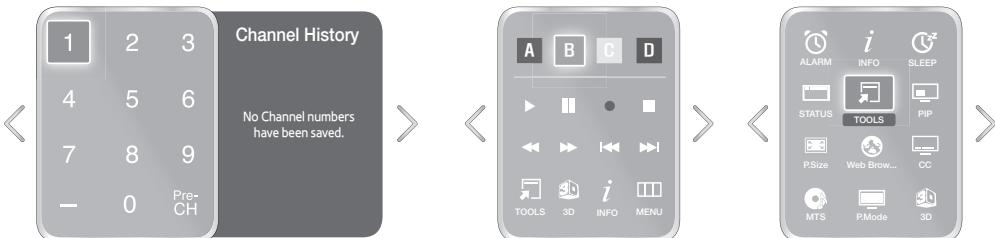
Show Status and Notification Banner

Press the **MORE** button on the Smart Touch Control and then select **STATUS** on the virtual remote panel that appears on the screen. The status and alarm banner appears at the top of the screen. For more information about using the status and alarm banner.

Using the Virtual Remote Panel

Press the MORE button to display the virtual remote panel on the TV screen. The virtual remote panel consists of the number panel, a playback control panel, and the quick access panel. Use the touch pad to highlight and select icons, numbers, and buttons on the panels.

 The displayed virtual remote panel on the TV screen may differ depending on the country.



Changing the Virtual Remote Panel

You can change which virtual remote panel is displayed on the TV screen. To shift between panels, move the focus highlight beyond the left or right edge of the displayed panel.

Use left/right scroll function on the touchpad to change the panel easily.

Using the Number Panel

Use the number panel to enter numbers on a keypad screen or webpage or to change the channel while watching TV. Changing the channel using the number pad leaves a record, allowing you to easily return to previous channels.

Using the Playback Control Panel

Use the playback control panel to pause, rewind, fast forward, skip to the next file, select a function with the **A**, **B**, **C**, **D** buttons, and much more while enjoying media content.

Using the Quick Access Panel

Use the buttons on the quick access panel to bring up the TV's **MENU**, **INFO** screens. Note that the buttons that appear may vary depending on the operating mode of the Smart Touch Control (with the TV only, as a universal remote, etc.).

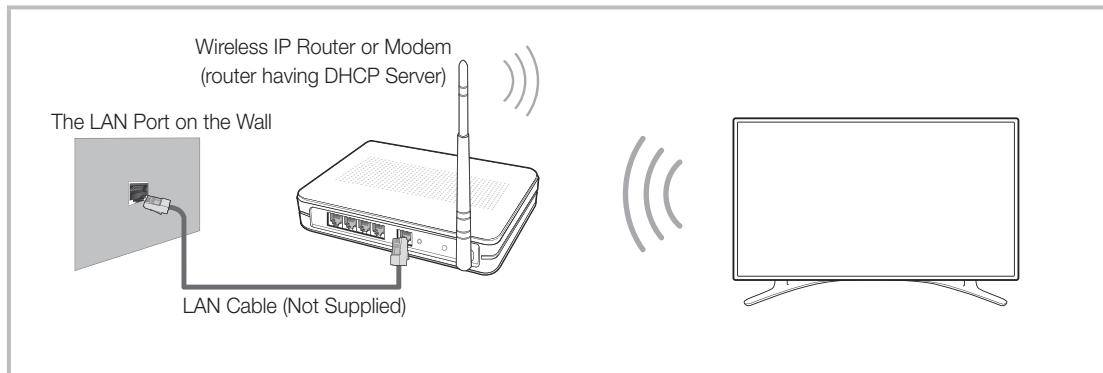
Connecting to the Network

You can set up your TV so that it can access the SMART TV applications through your local area network (LAN) using a wired or wireless connection.

- After you have "physically" connected your TV to your network, you must configure the network connection to complete the process. You can configure the connection during the Initial Setup process (see page 35) or after the Initial Setup process, through the TV's menu.

Network Connection - Wireless

You can connect your TV to your local area network (LAN) through a standard wireless router or modem.



This TV supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.

Most wireless network systems incorporate a security system that requires devices that access the network through an access point or AP (typically a wireless IP Sharer - router or modem) to transmit an encrypted security code called an access key.

Your TV is compatible with the following security protocols:

- Authentication Mode: OPEN, SHARED, WPAPSK, WPA2PSK
- Encryption Type: WEP, TKIP, AES

In compliance with the newest Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode.

Network Connection - Wired

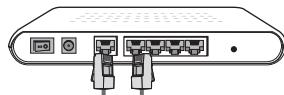
There are three main ways to connect your TV to your network using cable, depending on your network setup. They are illustrated below:

The Modem Port on the Wall



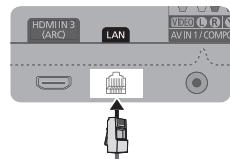
Modem Cable (Not Supplied)

External Modem
(ADSL / VDSL / Cable TV)



LAN Cable (Not Supplied)

TV Rear Panel

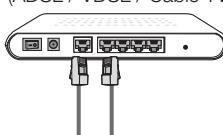


The Modem Port on the Wall



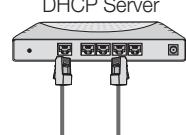
Modem Cable
(Not Supplied)

External Modem
(ADSL / VDSL / Cable TV)



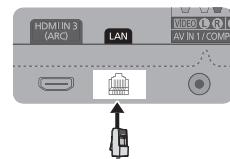
LAN Cable
(Not Supplied)

IP Router that has a
DHCP Server



LAN Cable
(Not Supplied)

TV Rear Panel

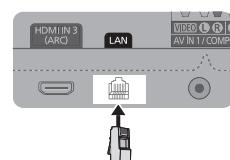


The LAN Port on the Wall



LAN Cable (Not Supplied)

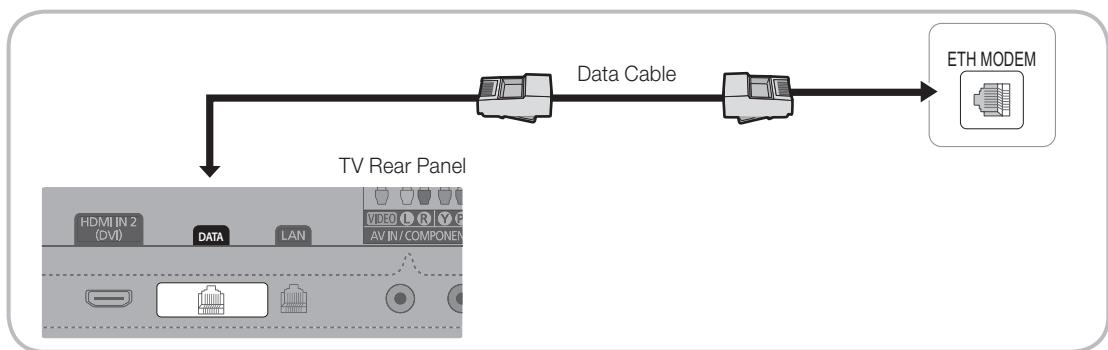
TV Rear Panel



☞ The TV does not support network speeds of 10Mbps or less.

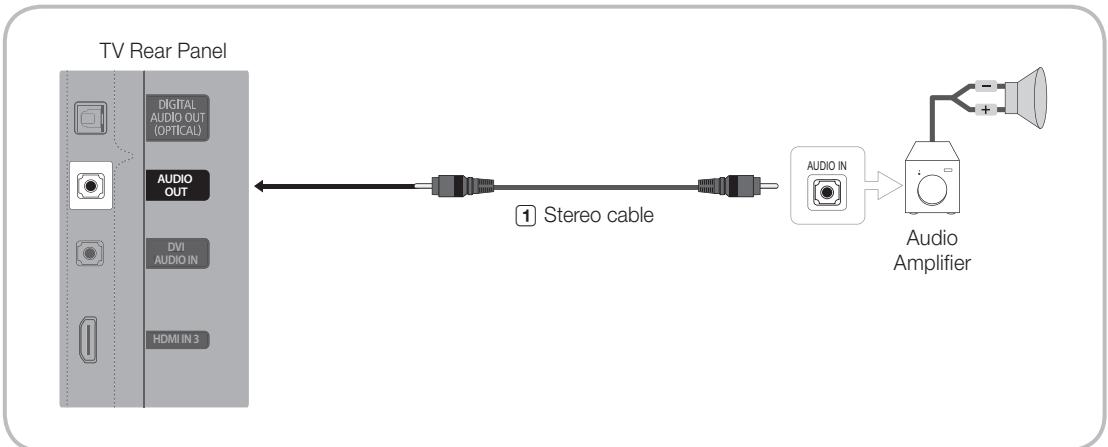
☞ Use Cat 6 or CAT 7 (STP Type*) cable for the connection. (*Shielded Twisted Pair)

Connecting the TV to an SBB or STB



1. Connect the **DATA** jack of the TV to the **[ETH MODEM]** jack of the STB (SBB) with the Data cable.
☞ Use data communication.

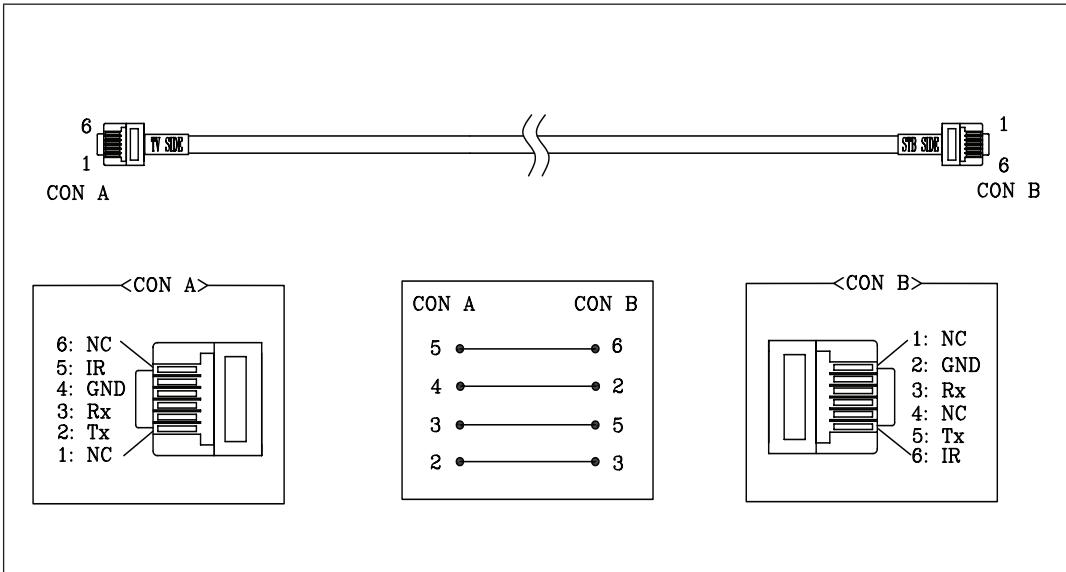
Connecting the Audio Output to an Audio Amplifier



1. Connect the **AUDIO OUT** port of the TV to the **Audio In** port of an audio amplifier with a stereo cable.

List of Vendors and Compatible Data Cables Supplied with the TV

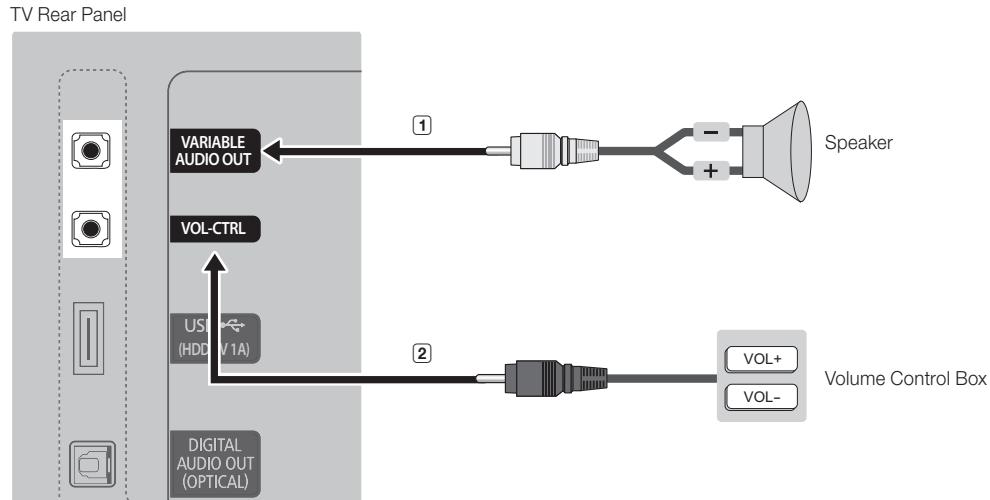
- Confirm that you are using the correct data cable for your vendor. Refer to the code label on the data cables.



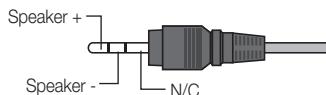
Connecting the Bathroom Speakers

You can connect the Bathroom Speakers using the following method.

Connecting through the Variable Output (available without an external amplifier)

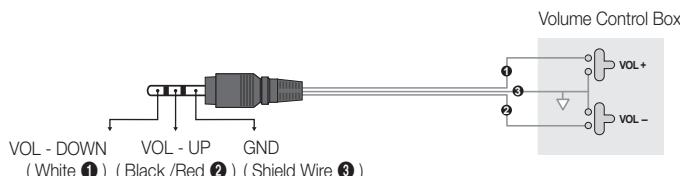


1. Connect the VARIABLE AUDIO OUT port of the TV to the Bathroom Wall Speakers of the hotel.



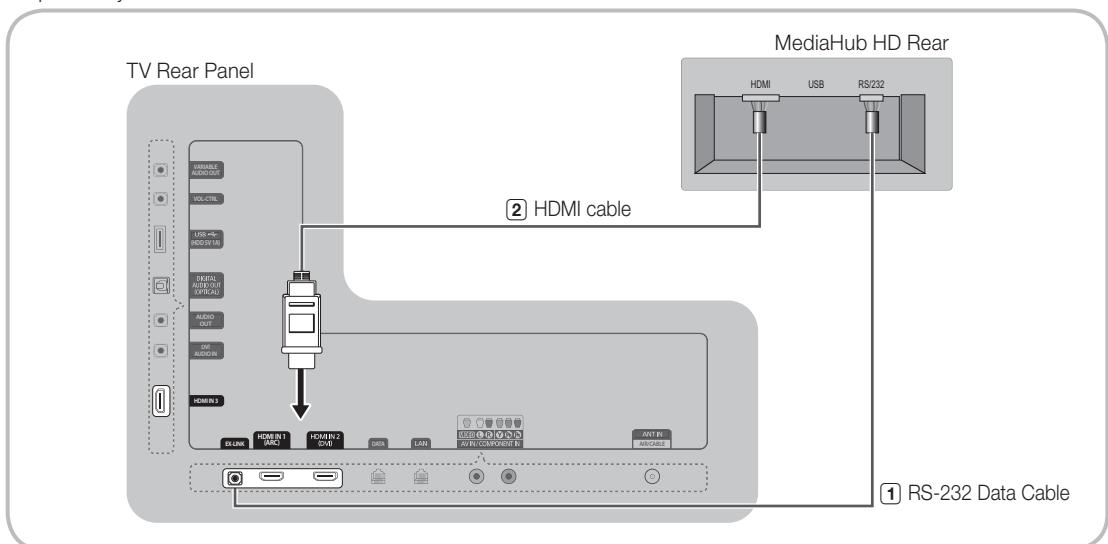
2. Connect the VOL-CTRL jack of the TV to the Volume Control Box Switch port on the Bathroom Wall of the hotel.

- ☞ The maximum speaker output is 4W, 8Ω.
- ☞ The VARIABLE AUDIO OUT port supports **MONO** sound out only.
- Installing the Volume Control
 - If you configure the Volume Control Box as shown in the figure, you can control the volume of the bathroom speakers.
 - The jack that connects the Volume Control Box to the TV is a 3.5mm normal Phone jack.
 - Volume Control Box switch is a Tact switch.
- Setting the Sub AMP Mode
 - 0: Turns the Sub AMP function off (PWM off).
 - 1: Determines the Sub volume according to the main volume control. the sub volume is determined according to the Power On Volume, the Min Volume, and the Max Volume values of Hotel Mode.
 - 2: Determines the volume according to the bathroom control panel setting.
- Variable Output Port Specifications
 - Speaker Wire: Use speaker cable no more than 82 feet (25m) in length.



Connecting the MediaHub HD

Output to any external source connected to MediaHub HD on the hotel desk.



1. Connect the EX-LINK port of the TV and the RS/232 port of the MediaHub HD.
2. Connect the HDMI IN (1(ARC), 2(DVI) or 3) port of the TV and the HDMI port of the MediaHub HD.

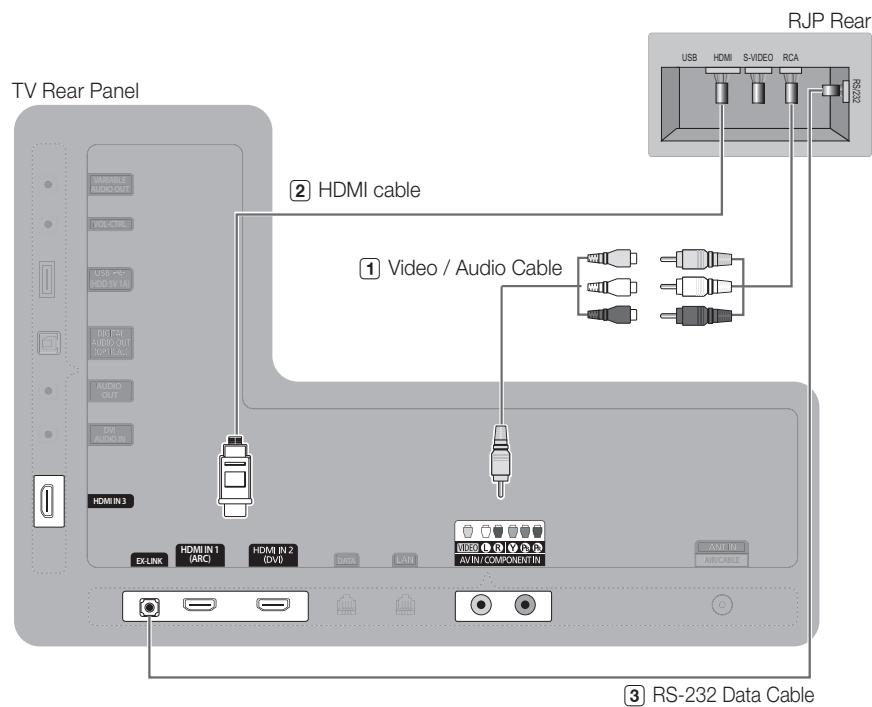
- MediaHub HD

- The MediaHub HD is a hardware module that has different Audio Video inputs (A/V, Audio, PC, HDMI and USB) and corresponding outputs. The corresponding output sources connect from MediaHub to the TV. MediaHub communicates with the TV via RS232. Hot Plug & Play is a function that allows hotel guests to connect an external source to the MediaHub. MediaHub communicates with the TV by sending messages regarding Active/Inactive sources. The TV switches to the Active external source.
 - You have to connect the HDMI of the MediaHub to the HDMI IN 1(ARC) port of the TV.
 - When the TV is on, connect the TV and the RJP within 10 seconds.

- Special features
 - PIP
 - Auto Detection

Connecting the RJP (Remote Jack Pack)

Connect the input jacks on the TV to the RJP. The RJP lets guests connect audio and video sources to the TV.



1. Connect the AV IN [L-AUDIO-R] port of the TV to the RCA port of the RJP.
2. Connect the HDMI IN (1(ARC), 2(DVI) or 3) port of the TV and the HDMI port of the RJP.
3. Connect the EX-LINK port of the TV and the RS/232 port of the RJP.

The RJP (Remote Jack Pack) compatible with this Samsung TV is TeleAdapt TA-7610, TA-7650 (HD) and TA-7660 (HD Plus).

- **RJP (Remote Jack Pack):** RJP stands for Remote Jack Pack. The RJP is a hardware module that has different Audio Video inputs (AV, Audio, PC and HDMI) and corresponding outputs. The corresponding outputs are connected from the RJP to the TV. The RJP communicates with the TV via RS232. A Hot Plug & Play function allows hotel guests to connect an external source to the RJP. The RJP communicates with the TV by sending messages regarding Active/Inactive sources.

A group of menu items, RJP Priority AV, RJP Priority PC, and RJP Priority HDMI, let you assign numbered priorities to the jacks of the RJP. 1 is the highest priority and 3 is the lowest. When a guest connects external sources to the RJP jacks, the TV will automatically switch between sources based on the priority you have assigned them in the Menu. For example, lets say AV is set to 1 and HDMI to 2. If a guest has attached a device to the HDMI jack, and then plugs a device into the AV jack, the TV automatically switches to the device plugged into the AV jack (the jack with the higher priority). Note that a guest can also switch between devices manually by pushing a button on the RJP.

 You can connect the RJP to HDMI 1, 2, or 3 or AV 1 or 2.

- The RJP can be returned to the factory default settings by pressing the A/V and HDMI buttons simultaneously for 10 seconds. All LEDs blink 5 times, acknowledging that this has been finished.
- The RJP will automatically turn off any LEDs after 5 minutes to avoid unnecessary light pollution in the hotel room. The LEDs that were turned off will turn on again if the guest touches any of the buttons and the 5 minute timer will restart. If the guest then touches another source button, the TV will change to the selected source and the corresponding LED will be lit.
- After an RJP Reset or a TV Power OFF/ON, it takes approximately 10 seconds for the TV and the RJP to establish communication.
- The following table shows the approximate time in seconds it takes to switch from the TV to an input source, based on assigned or default priorities.

 Scenario 1: When no inputs are connected.

Source	To Connect
AV	2 Sec
PC	0.7 Sec
HDMI	3.9 Sec

 Scenario 2: When two or more inputs are connected and an Input source is disconnected and then reconnected.

Source	Disconnect	To Connect	Total
AV	4.5 Sec	2 Sec	6.5 Sec
PC	0.7 Sec	0.7 Sec	1.4 Sec
HDMI	3.9 Sec	3.9 Sec	7.8 Sec

 An example: If the RJP has all its live sources (AV, PC, and HDMI) connected, AV has been assigned the highest priority, the RJP is in HDMI mode, and a guest removes and reconnects the AV source, the minimum time required to switch to the AV source is 6.5 seconds.

- To connect audio (Ipod or Mp3), Music mode should be ON.
- A/V, PC, and HDMI input sources are supported.

Setting the Hotel Option Data

To let you control how the TV functions when in Hotel mode, the TV has two Hotel mode menus, the Stand-alone mode menu and the Interactive mode menu. The menu items that differ between the menus are listed below.

Items in the Standalone menu only:

- REACH Server update Time
- REACH Update Immediate
- REACH Server Channel
- REACH Server Version

Items in the Interactive menu only:

- SI Vendor
- Lodgenet Remote (If you selected MTI or EBL as your SI Vendor)

All other items appear in both menus.

To access the menus, press MUTE → 1 → 1 → 9 → ENTER on your Samsung remote.

After a menu appears, follow these general directions to navigate and change values:

- Use the Up and Down arrow buttons on the standard remote to move from menu item to menu item.
- Press the Enter or Left or Right arrow buttons to select a menu item. The screen displays that menu item only.
- Press the Left or Right arrow button to change a value. The Right arrow button increases numerical values. The Left arrow button decreases numerical values.
- When the screen is displaying one menu item, you can press the Up or Down arrow button to display the next or previous menu item.
- Press the Return button to exit a menu item and return to the Main menu.
- To exit a Hotel mode menu, turn off the TV, and then turn it on again. Any changes you made are saved except changes to SI Vendor. For changes to SI Vendor, you must turn the TV off, wait until the Standby light glows steadily, then unplug the TV, wait for the Standby light to go off, and then plug the TV in again.

Hospitality Mode	Standalone	Network
SI Vendor	OFF	Widget
Power On		Service
Channel		
Menu OSD		
Operation		
Clock		
Music Mode		
External Device		
External Source		
Bathroom Speaker		
Eco Solution		
Logo/Message		
Cloning		
REACH Server		

Above: The Hotel mode menu.

To change menus, follow these steps:

1. Highlight the Hospitality Mode menu item in the top left corner of the menu.
2. Press the left or right arrow button on the Samsung remote. Only the Hospitality Mode menu item is displayed.
3. Press the left or right arrow button to change the Hospitality Mode item from Standalone to Interactive or from Interactive to Standalone.
4. Press the Return or Menu button on the remote. The entire menu re-appears with your selection displayed in the Hospitality Mode field.

 After you have set the values in one TV, you can clone those values to multiple TVs. See USB Cloning on page 26.

Menu Items

To Enter this menu: Press the **MUTE** → **1** → **1** → **9** → **ENTER** buttons in order.

To exit from this menu : Power Off (or Power Off and unplug if you have changed SI Vendor), and then turn on again. Any changes you made are saved.

Menu	Item	Initial Value	Description
Hospitality Mode	Hospitality Mode	Standalone	Select the Hospitality mode. <ul style="list-style-type: none">• Standalone mode: TV works alone, without an SI STB or SBB• Interactive mode: TV works with an SI STB or SBB
SI Vendor	SI Vendor	OFF	<ul style="list-style-type: none">• Interactive mode : Samsung / OCC / MTI / Nstreams / Enseo / Cardinal / Guestek / SeaChange / BDC / Innyne• Standalone mode : Smoovie
Power On	Power On Channel EN	Last Saved	Set the default values that will be applied when the TV is turned on. <ul style="list-style-type: none">• User Defined : Lets you set Power On Channel and Channel Type manually. See Power On Channel and Channel Type below.• Last Saved : If you select this item, when the TV is turned on, it displays the channel it was displaying when it was turned off.
	Power On Channel	3	When the TV is turned on, it switches automatically to this channel when in Stand Alone Hospitality mode.
	Channel Type	CATV	<ul style="list-style-type: none">• Select channel band : ATV (analog air band), DTV (digital air band), CATV (analog cable band)
	Power On Volume EN	Last Saved	Set the default volume values which will be applied when the TV is turned on. <ul style="list-style-type: none">• User Defined : Lets you set the Power On Volume manually. See Power On Volume below.• Last Saved : When the TV is turned on, it returns to the volume that had been set when the power had been turned off.
	Power On Volume	...	TV will switch on at this Volume Level in Stand Alone Hospitality mode.
	Min Volume	0	Minimum Volume Level user can set in Stand Alone Hospitality mode.
	Max Volume	100	Maximum Volume Level user can set in Stand Alone Hospitality mode.
	Power On Source	TV	Select the input source the TV displays when it is turned on.
Channel	Power On Option	Last Option	Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again. <ul style="list-style-type: none">• Last Option: Returns to its last Power state. If it was in Stand-by, it returns to Stand-by. If it was on, it turns on.• Power ON : When the power returns, the TV turns on.• Standby : When the power returns, the TV enters the Standby mode.
	Channel Setup		Gives you direct, immediate access to some of the Channel menu functions on the user Channel menu such as Auto Program, Antenna selection, etc.
	Channel Editor		The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can: <ul style="list-style-type: none">- Change the channel numbers and names, and sort the channels in your desired channel number order.- Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen. The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.
	Dynamic SI	ON	<ul style="list-style-type: none">• ON : Check the DTV Program channel number. DTV channel editor is inaccessible.• OFF : There is no check of the DTV Program channel number. (DTV channel editor is accessible, but additional channel program number update is not supported)
Menu OSD	Picture Menu Lock	OFF	Enable or disable the Picture Menu.
	Menu Display	ON	<ul style="list-style-type: none">• ON : Main Menu displays.• OFF : Main Menu does not display.
Operation	Panel Button Lock	Unlock	Turns the front panel (Local key) operations on/off. <ul style="list-style-type: none">• Unlock : Unlocks all panel keys• Lock : Locks all panel keys• OnlyPower : Locks all panel keys buttons except the Power• Menu/Source : Locks Menu and Source
Clock	Local Time	Manual	Select the way to update clock data. Use clock data from a DTV channel to set the clock automatically or set the clock manually when the TV is in stand-alone mode.

Menu	Item	Initial Value	Description
Music Mode	Music Mode AV	OFF	Allows music output from an mp3/audio player connected to an AV Input Source on the TV. When on, you can hear sound from the player through the TV whether there is a video signal or not. Also mutes the video so the TV does not display a picture when a guest is playing music. The TV's backlight, however, remains on.
	Music Mode Comp	OFF	To get music output from an mp3/audio player through a Component Input Source. When on, you can hear sound from the player through the TV even if there is no video signal. The TV's backlight, however, remains on. If a guest adds a video signal, video displays normally.
	Music Mode Backlight	OFF	When set to Off, the TV's backlight is turned off entirely when a guest uses the Music mode. To save energy, set to Off.
External Device	7610 Priority AV	1	Lets you set the priority of the 7610 RJP AV jack. You can choose 1, 2, or 3, with 1 being the highest and 3 the lowest. The TV automatically displays the source with the higher priority. For example, lets say AV is set to 1 and HDMI is set to 2. If a guest has attached a device to the HDMI jack, and then plugs a device into the AV jack, the TV will automatically switch to the device plugged into the AV jack (the jack with the higher priority). Note that a guest can also switch devices manually by pushing a button on the 7610 RJP.
	7610 Priority HDMI	2	Lets you set the priority of the 7610 RJP HDMI jack. You can choose 1, 2, or 3, with 1 being the highest and 3 the lowest. The TV automatically displays the source with the higher priority. See above for a more detailed explanation.
	7610 AV Option	AV1	Select RJP AV Source. (AV1/AV2)
	RJP HDMI Option	HDMI1/DVI	Select RJP HDMI Source. (HDMI1/DVI / HDMI2 / HDMI3 / HDMI4)
	HDMI Music Mode	OFF	Allows music output from an mp3/audio player connected to an HDMI Input Source. When on, you can hear sound from the player through an HDMI input of the RJP whether there is a video signal or not. (This option is only compatible with the Guest link RJP.)
	Sound Bar Out	OFF	Turn Sound Bar Out on or off. Refer to Page 38.
External Source	USB Media Mode	Defalut	When a USB device is connected to the TV: <ul style="list-style-type: none"> Default : Popup window appears. Automatic : Opens the USB contents menu automatically. Disable : Neither the pop-up window nor the menu appears.
	External Source Banner	ON	If set to On, the TV displays the External Source Banner (information) when you change the TV source to another external input, press the Info key, or turn the TV on. <ul style="list-style-type: none"> ON : The External Source information is displayed on the TV screen. OFF : The External Source information is not displayed on the TV screen.
	Auto Source	OFF	<ul style="list-style-type: none"> ON : When an external input source is connected to the TV, the TV identifies the input source, and then automatically switches to that input source. OFF : Auto Source function is Off.
	Anynet+ Return Source	Power On Src	Select the Return Source for Guest-Link RJP (HDMI-CEC).
Bathroom Speaker	Sub AMP mode	2	Determines the Sub AMP operation mode. <ul style="list-style-type: none"> 0: Turns the Sub AMP function off (PWM off). 1: Determines the Sub volume according to the main volume control. That is, the sub volume is determined by the Power On Volume, the Min Volume, and the Max Volume. 2: Determines the volume according to the bathroom control panel setting.
	Sub AMP Volume	6	Sub AMP Volume level at power on initial condition.
Eco Solution	Energy Saving	Off	Adjusts the brightness of the TV to reduce power consumption. <ul style="list-style-type: none"> Off: Turns off the energy saving function. Low: Sets the TV to low energy saving mode. Medium: Sets the TV to medium energy saving mode. High: Sets the TV to high energy saving mode.

Menu	Item	initial Value	Description
Logo/ Message	Welcome Message	OFF	Display the Welcome Message for 5 seconds when the TV turns On.
	Edit Welcome Message		Edit the Welcome Message.
	Hospitality Logo	OFF	Turns the Hospitality logo feature on/off. Select from Off, BMP, AVI, or Both. When you select BMP, AVI, or Both, you select the file to use and turn the logo feature on. The Logo is shown during the initial turn on for the amount of time set in "Logo Display Time"
	Hospitality Logo DL	...	Downloads the Hospitality logo. Hospitality logo file requirements: <ul style="list-style-type: none">• BMP or AVI files only.• Max file size : BMP - 960 X 540. AVI - 50MB.• The file can only be named samsung.bmp or samsung.avi.
	Logo Display Time	...	Hospitality Logo Display Time (3/5/7 seconds).
Cloning	Clone TV to USB		Clone the current TV option values to a USB memory device.
	Clone USB to TV		Clone the saved TV option values in a USB memory device to the TV.
	Setting Auto Initialize	OFF	If you set Setting Auto Initialize to On, and the TV's power is turned off and on, guest side menu items are restored to their cloned values. See page 35.
REACH Server	REACH Server update Time	1hour	Lets you set when data such as updated SW, cloning files, and S-LYNC REACH contents is downloaded from the REACH server to the TV : <ul style="list-style-type: none">• Off : REACH data is updated on the TV only at the time you set in REACH Server Update Time.• 1hour : Every 1 hours• 2hour : Every 2 hours• 12:00 am : Every 12:00 am.• 2:00 am : Every 2:00 am.• 12:00 pm : Every 12:00 pm.• 2:00 pm : Every 2:00 pm.
	REACH Update Immediate	OFF	<ul style="list-style-type: none">• ON : Whenever the TV enters standby mode (the power cord is plugged in and the power is off), the REACH data is updated on the TV.• OFF : The REACH data is only updated on the TV at the REACH server update time.
	REACH Server Channel	87	Assign a DTV channel number to carry the update REACH data. This channel number must be the same as the number set on the Reach server.
	REACH Server Version	0000	Displays the current REACH data version.
	REACH Server Group ID	All	Select the group ID of the REACH server. (Refer to the REACH server manual for more details)
	S-LYNK REACH	OFF	ON : The S-LYNK REACH menu is displayed. OFF : The S-LYNK REACH menu is not displayed.
	S-LYNK REACH Volume	ON	ON : The TV sound of the current TV source is continually outputted even when the S-LYNK REACH menu is displayed. OFF : The TV sound of the current TV source is stopped when the S-LYNK REACH menu is displayed.
	IPG Room Type	Default	Selects the IPG room type of the REACH server. (Refer to the REACH server manual for the more information.)
	TICKER	OFF	ON : The TICKER content is displayed. OFF : The TICKER content is not displayed.
Network	Network Setup	...	Connect to a wired or wireless network and access the Internet.
	Hotel ID Setting	...	Set a Hotel ID.
	Apps Edit	...	Download, update, organize, and delete apps, Use WebBrowser or Hospitality Browser.

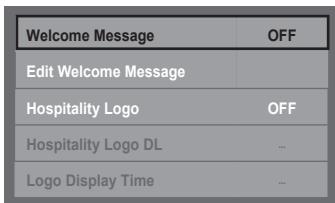
Menu	Item	Initial Value	Description
Widget	Widget Mode	OFF	Widget Mode On/Off.
	Solution Type	Vender Server	Select type of solution (Vender Server/ SINC Server).
	Server URL Setting		Set server URL.
	License Server IP Setting		Set server IP.
	Virtual Standby	OFF	Virtual Standby mode On/Off. When Virtual Standby is On, TV power consumption will be 9.5W to 17.4W (Depending on the size of the TV screen).
	IPTV Mode	...	IPTV mode On/Off.
	External Source Browser	ON	Source Menu On/Off.
Service	CAS	Pro:idiom	Configures CAS support. Applies to only the NB673, NB677, and NB678 models. OFF : Turns off CAS support. LYNK DRM : Select to turn on S-LYNK DRM CAS support only. Pro:idiom : Select to turn on Pro:idiom CAS support only. LYNK DRM,PI : Select to have the TV support S-LYNK DRM CAS and Pro:idiom CAS.
	PI AES Data	0xD27B	Displays the current state of Pro:idiom AES
	Self Diagnosis for TV		Lets you check the state of the TV picture and sound. <ul style="list-style-type: none">• Picture Test : Use to check for picture problems. If the problem appears in the test picture, select YES, and then follow the directions on the screen• Sound Test : Use to check for sound problems. If the problem occurs during the test, select YES, and then follow the directions on the screen
	Self Diagnosis for HTV		Lets you check the state of Pro:idiom and its communication with the SI STB or SBB. If you have any problems with the Pro:idiom encryption channel or the communications with the SI STB or SBB, use this diagnosis function. If Pro:idiom DTV Channel Key Loss appears to have failed and the Pro:idiom encryption channel has failed to play content, first check the broadcasting systems related to Pro:idiom encryption. If your broadcasting system does not have a problem, contact Samsung Service. If STB SI Vendor Setting appears to have failed and communication with the SI STB or SBB has failed, first check your SI STB or SBB. If your SI STB or SBB does not have a problem, contact Samsung Service.
	PI AES Log	OFF	Displays the state of Pro:idiom AES operation.
	View PI AES Log	...	Display/Save Pro:idiom AES log.
	Software Upgrade		Lets you upgrade the TV SW with a USB memory stick. Refer to page 37~38.
	Service Pattern	OFF	Lets you check the state of the TV picture by displaying picture test patterns. Press the Menu button turn off the test patterns and exit.
	ATV Cable AGC Gain	Default	Lets you control the AGC gain of the analog cable channels. Don't change the default value unless problems occur.
	DTV Open Cable AGC Gain	Default	Lets you control the AGC gain of the digital cable channels. Don't change the default value unless problems occur.
	TV Reset		Returns all settings on the TV to their factory defaults.

 REACH (Remote Enhanced Active Control for Hospitality) is a professional, interactive remote controller that lets you deliver TV firmware updates, cloning data, channel mapping changes, S-LYNK REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are available only in standalone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed with the REACH server product for more operating information.

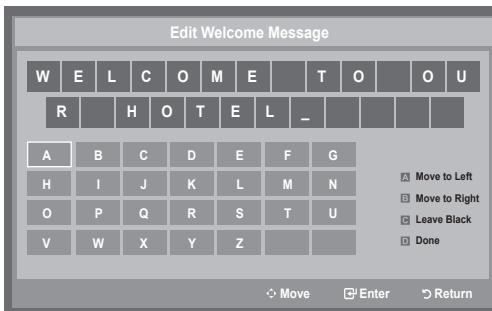
Welcome Message

The Welcome Message feature displays a custom message on the TV every time it is turned on.

- Welcome message settings are in the Hotel Option Menu.
- Set Welcome Message to ON to display the message when the TV is powered on.



- You can make the Welcome Message up to 25 characters long and edit it in the Hotel Service menu.
- Welcome Message supports the following characters:
 - Capital Letters from A to Z.
- You can edit the Welcome Message by using the remote's navigation, color, and Enter buttons in the "Edit Welcome Message" OSD (See the illustration below.)



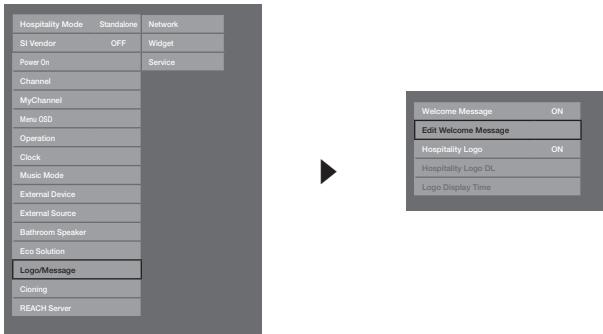
Below are the general directions for navigating and changing letters on the Edit Welcome Message screen:

- Press the A button on the remote to move to the left in the message.
- Press the B button to move to the right.
- After you have selected a position in the message, use the arrow buttons on your remote to select a letter in the alphabet below the message.
- Press Enter to place a letter into the position you selected.
- Press the C button to erase a letter in a position or enter a blank.
- Press Return or the D button to exit.

Hospitality Logo

The Hospitality Logo function displays the Hotel's picture image when the TV is powered on.

- Hospitality Logo settings are the Hotel mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in memory and the Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality found Logo option is off, even if the logo image has been loaded into the TV.



- **Hospitality Logo**

- This option lets you choose whether the Hospitality Logo image is displayed or not.
- The Initial value is OFF.
- This Can be set to OFF or ON.
- When set to ON, the Logo Download and Logo Time Display menu items become accessible.

- **Logo Download**

- This option lets you download the logo image to the TV's memory from a USB device.
- A wait message appears while the image is being copied to the TV.
- A "completed" message appears when the copy operation finishes successfully.
- The word "failed" appears if the copy operation was unsuccessful.
- **No USB** appears if no USB device is connected.
- **No File** appears if there is no file to copy on the USB device or the file is in the wrong format must be a BMP file. If No File appears and there is a logo file on the USB device, check the file format.

- **Logo File Format**

- The TV supports only BMP and AVI format.
- The file name must be samsung.bmp or samsung.avi.
- The maximum resolution of the BMP format is 1280 x 720.
- The maximum file size for AVI format is 50MB.
- The TV does not change the size or scale of the image.

USB Cloning

The USB Cloning function lets you download user-configured settings (**Picture**, **Sound**, **Input**, **Channel**, **Setup**, and **Hotel Setup**) from one TV to a USB device, and then upload these settings from the USB device to other TV sets. This lets you create a standard array of settings and distribute that standard array to all the TVs in your facility.

- **Cloning from TV to USB:** Copies stored menu settings from a TV to a USB device.

1. Insert a USB drive into the **USB port** on the rear of the TV.
2. Enter the hotel option menu by pressing buttons in order.
MUTE → **1** → **1** → **9** → **ENTER**
3. Press the **▲** or **▼** button to select **Cl one:TV to USB**, and press the **ENTER** button.
4. When the message **Clone: TV to USB** is displayed. Press the **ENTER** button.
5. The TV displays one of the following messages:

- **In Progress:** Copying data to USB.
- **Completed:** Copy was successful.
- **Failed:** Copy was not successful.
- **No USB:** USB is not connected.

The clone folder will be labeled T-MST12AKUCB.

 The cloned values include the values on the Guest side menu (brightness, picture size, contrast, etc.) and the Hotel side menu.

Cloning from USB to TV: Copies menu settings in a USB device to a TV.

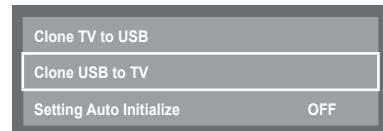
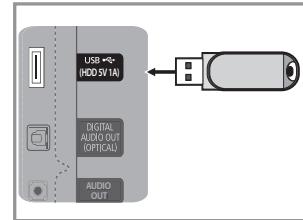
 **Shortcut:** Turn the TV off, insert the USB device, turn the TV on, and then press the **ENTER** button for 5 seconds.

To clone data to the TV using the Hotel menu, follow these steps:

1. Turn the TV off.
2. Insert the USB drive into the **USB port** on the rear of the TV.
3. Turn the TV on.
4. Enter the Interactive menu by pressing these buttons in order.
MUTE → **1** → **1** → **9** → **ENTER**
5. Press the **▲** or **▼** button to select “Clone USB to TV”, and then press the **ENTER** button.
6. The message **Clone: USB to TV** is displayed. Press the **ENTER** button.
7. The TV displays one of the following messages:
 - **In Progress:** Copying data to TV.
 - **Completed:** Copy was successful.
 - **Failed:** Copy was not successful.
 - **No USB:** USB is not connected
 - **No File:** There is no file to copy on the USB device. If you get a No File message, check the folder on your USB device. The folder name should be T-MST12AKUCB.

 If you insert the USB device when the TV is on, a pop-up window may appear. If this occurs, press Exit, and then continue.

 Tables that list the settings that are cloned in the Interactive and Standalone Hotel Menus begin on the next page.



- Settings Cloned in the Hotel Menu

Menu Item	Cloning Support	Applicable Region
Hospitality Mode	Yes	All
SI Vendor	Yes	All except Brazil
Power On Channel EN	Yes	All
Power On Channel	Yes	All
Channel Type	Yes	All
Power On Volume EN	Yes	All
Power On Volume	Yes	All
Min Volume	Yes	All
Max Volume	Yes	All
Power On Source	Yes	All
Power On Option	Yes	All
Channel Setup	N/A	All except Hospital
Channel Editor	N/A	All
Channel Bank Editor	N/A	Smooovie SI and Hospital
Channel Bank Service Level	Yes	Hospital Models Only
Mixed Channel Map	Yes	EU
Dynamic SI	Yes	US and US Hsopital
Channel Rescan Message	Yes	EU and EU Hospital
Pan Euro MHEG	Yes	EU and EU Hospital
Channel Auto Store	N/A	Hospital Models Only
Mychannel En	Yes	EU and EU Hospital
Genre Editor	N/A	EU and EU Hospital
Picture Menu Lock	Yes	All
Menu Display	Yes	All
Channel Menu Display	Yes	ASIA Models only
Panel Button Lock	Yes	All
Mute On CC	Yes	US Hsopital Only
Subtitle Auto On	Yes	EU and EU Hospital
SW Clock	Yes	EU and EU Hospital
Local Time	Yes	EU and EU Hospital
Time Format	Yes	EU and EU Hospital
CLOCK Normal Dim.	Yes	EU
CLOCK Standby Dim.	Yes	EU
Music Mode AV	Yes	All
Music Mode PC	Yes	All
Music Mode Comp	Yes	All
Music Mode Backlight	Yes	All
7610 Priority AV	Yes	All
7610 Priority PC	Yes	All
7610 Priority HDMI	Yes	All
7610 AV Option	Yes	All
RJP HDMI Option	Yes	All
HDMI Music Mode	Yes	US and US Hsopital
Sound Bar Out	Yes	All
Video Out	Yes	ASIA Models only
USB Media Mode	Yes	US and EU
External Source Banner	Yes	All
Auto Source	Yes	All
Anynet+ Return Source	Yes	All Models except Hospital
Sub Amp Mode	Yes	All except US
Sub Amp Volume	Yes	All except US
Pillow Speaker Type	Yes	Hospital Models Only
Speaker Select	Yes	Hospital Models Only
Pillow Volume	Yes	Hospital Models Only
Energy Saving	Yes	All
Energy Saving Timer	Yes	EU
Welcome Message	Yes	All
Edit Welcome Message	N/A	All

Menu Item	Cloning Support	Applicable Region
Hospitality Logo	Yes	All
Hospitality Logo DL	N/A	All
Logo Display Time	Yes	All
Clone TV to USB	N/A	All
Clone USB to TV	N/A	All
Setting Auto Initialize	Yes	All
REACH Server update Time	Yes	All except Brazil/ASIA_READY
REACH Update Immediate	Yes	All except Brazil/ASIA_READY
Manual SIRCH	N/A	All except Brazil/ASIA_READY
REACH Server Channel	Yes	All except Brazil/ASIA_READY
REACH Server Version	N/A	All except Brazil/ASIA_READY
REACH Server Group ID	No	US
REACH Server	Yes	All except Brazil/ASIA_READY
IPG Room Type	No	Guestek
CAS	Yes	US and US Hsopital
PI AES Data	N/A	US and US Hsopital
Self Diagnosis	N/A	All
PI AES Log	Yes	US and US Hsopital
View PI AES Log	N/A	US and US Hsopital
Upgrade now	N/A	All
Service Pattern	Yes	All
ATV Cable AGC Gain	Yes	US and US Hsopital
DTV OpenCable AGC Gain	Yes	US and US Hsopital
TV Reset	N/A	All

Multi Code Remocon

A Multi Code Remocon is a special remote which is designed to control multiple TV.

This is useful where there is more than one TV in a location.

You can control up to 10 TVs, each with a different ID code, with one remote. ID numbers are displayed on each TV's OSD.

The Initial ID code for each TV is "0".

- You can set and reset the ID code in Analog TV mode or PC mode. (Not available in DTV mode.)
- You can set the ID code to any digit from 0 to 9.
- To set a TV's ID code, follow these steps:
 1. Aim the remote at the TV, and then press the Blue button on the remote for more than 7 seconds. The TV displays the current ID in the middle of the screen and displays the words. "Remote control code is set to x. If you want to change the Remote control code, enter the digit you want to change."
 2. Press the number on the remote you want to assign to the TV. The TV displays the following words:
"Remote control code is changed to x."
 The TV will display the OSD until you press the Exit button.

See the example below.



Remote control code is set to 0. If you want
to change the Remote control code, enter chosen digit.

Example: After you see the message above, if you press 1, the TV and Remote will be set to ID code 1. The TV then displays the following message: "Remote control code is changed to 1"

The TV can then only be controlled by a remote which has the same ID code (1).

- If the ID code of the remote and TV do not match, the TV displays the following message:
" TV ID x"(x is the TV's ID)
- To reset the ID code, press the Yellow button for more than 7 seconds. The ID codes of the TV and Remote are reset to "0". "Remote control code is set to 0." appears on the TV.

Setting Auto Initialize

When you clone settings from one TV to another, you clone both the guest side menu and hotel side menu settings: Picture, Sound, Input, Channel, Setup, and Hotel Setup. This lets you set nearly all of the menu values on your hospitality TVs to the same, standard settings. If you allow guests access to the guest side menus, for example the Picture menu, they can change the settings in those menus so they are no longer standard. If you set the Setting Auto Initialize function to on the TV automatically restores (initializes) any guest-side menu values to the cloned, standard values when the TV is turned off and then turned on again. Note that Setting Auto Initialize works on cloned guest side menu values only. Settings which have not been cloned are ignored.

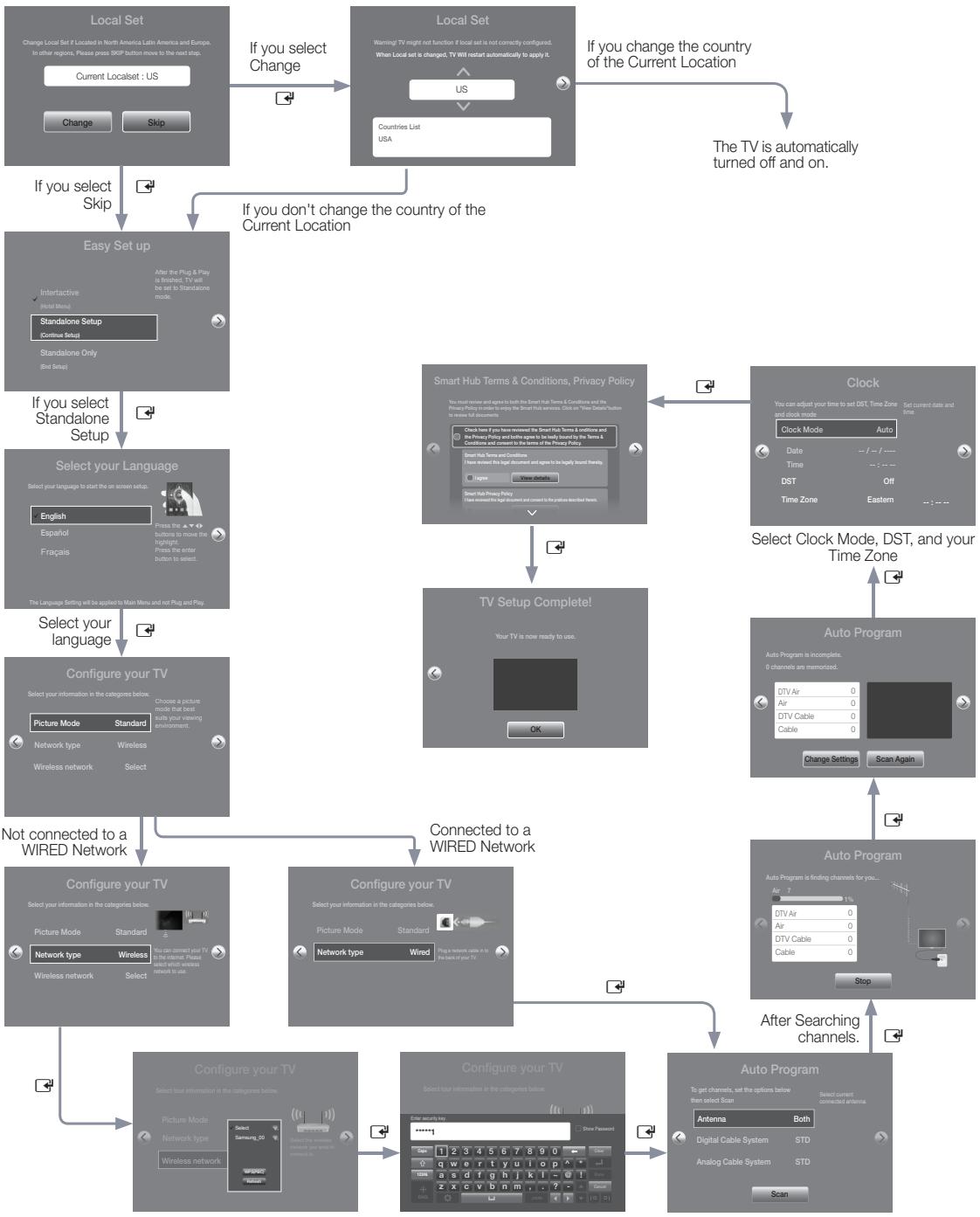
The table below lists the settings that are restored to their cloned values when you set the Setting Auto Initialize function to on.

Menu	Menu Item	Menu	Menu Item
Picture	Picture Mode Backlight Contrast Brightness Sharpness Color Tint(G/R) Picture Size Position 3D 3D Mode 3D Persoective Depth L/R Change 3D → 2D PIP	Sound	Sound Mode Sound Effect DTS TruSurround DTS TruDialog Equalizer 3D Audio Speaker Settings Speaker Select Auto Volume SoundShare Settings TV Installation Type Digital Audio Out Audio Format Audio Delay Reset Sound
	Advanced Settings Dynamic Contrast Black Tone Flesh Tone RGB Only Mode Colour Space White Balance 10p White Balance Gamma Expert Pattern Motion Lighting Picture Opticons Colour Tone Digital Clean View MPEG Noise Filter HDMI Black Level Film Mode Auto Motion Plus Cinema Black Picture Off Picture Mode Memory Reset Picture	System	Menu Language Time Clock Sleep Timer Wake-up Timer Device Manager Keyboard Settings Mouse Settings Smart Touch Control Settings Eco Solution Energy Saving Eco Sensor No Signal Power Off Auto Power Off Auto Protection Time Change PIN General Game Mode BD Wise Menu Transparency Sound Feedback Boot Logo Anynet+ (HDMI-CEC) Anynet+ (HDMI-CEC) Auto Turn Off Divx® Video On Demand

Hotel Plug & Play

The Hotel Plug & Play function, which automatically performs the Hotel mode selection, Country Setup, Clock Setup, and Picture Mode Setup, runs once, when power is first turned ON. Setup also runs automatically after you have executed a Service Reset.

- UI Scenario



- **Hotel Plug & Play OSD**
 - Initially highlighted: Interactive
 - If you select the Standalone Only button, the Standalone hotel mode is set by default and the “Standalone mode is set” OSD appears for 3 seconds.
 - TV enters into RF mode automatically after displaying the “Standalone mode is set” OSD for 3 seconds.
 - If you select the Interactive mode, the Interactive Setup Menu is displayed. Press the power off key to exit from the Interactive menu.
 - If you select the Standalone Plug & Play mode, the “Select Menu Language” OSD appears.
- **LocalSet**
 - Initially highlighted: US
 - If you press the Enter key after selecting Change, you can change the country.
If the country is changed, the TV automatically turns off and on.
 - If you select the Interactive mode, the Interactive Setup Menu is displayed. Press the power off key to exit from the Interactive menu.
 - If you select the incorrect country, execute TV Reset again after entering the Service section of the Hotel Menu.
- **Select Menu Language OSD**
 - If you select Standalone from the “Select Hotel TV Mode” OSD, the “Select Menu Language” OSD appears.
 - Initially highlighted: English
 - Display time: OSD timeout and operation are the same as Samsung's consumer TV models.
 - If you press the Enter key, the “Select Country” OSD appears
- **Picture Mode OSD**
 - Initially highlighted: Standard.
 - The TV displays the Picture Mode OSD where you can choose the Dynamic or a Standard Picture mode.
 - After you select the picture mode, the TV displays the Standalone Setup Menu OSD. Press power off to exit.
- **Auto Search Mode OSD**
 - If you select the Skip option, the TV displays the Clock Mode OSD.
 - If you press the Enter key, the TV auto searches for channels.
 - The OSD Display time, which starts at the time that Auto Store is completed and goes to the time Auto Sort starts, is 30 seconds.
- **Set Clock Mode, DST (Daylight saving time), and Time Zone OSD**
 - Initially highlighted:
Clock Mode : Auto, DST : Off, Time Zone : Eastern
 - If the TV will be tuned to digital broadcast channels, and these channels transmit date and time information, set the Clock Mode to Auto. The TV will set the date and time automatically.
 - If the TV will not be tuned to digital broadcast channels, set the Clock Mode to Manual, and then set the date and time on the TV manually.
 - Set DST On or Off to apply or not apply daylight savings time to the TV.
 - Select your time zone on the map that appears.

USB Software Upgrade Method

Samsung may offer upgrades to the TV's software (SW) in the future. Please contact the Samsung Hospitality Hotline at 1-866-894-0524 to receive information about downloading upgrades and using a USB drive to update the SW by connecting the USB drive containing the upgrade to the USB port located on the TV.

When the software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you clone the hotel settings so that you can easily reset them after the upgrade.

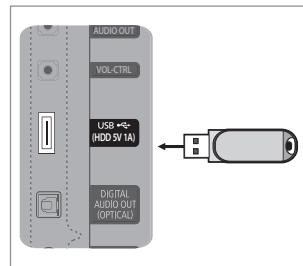
To upgrade the TV's software, follow these steps:

1. Insert a USB drive containing the SW upgrade into the USB port on the side of the TV.
2. Press the **MENU** button to display the menu.

Press the **▲** or **▼** button to select **Support**, and then press the **ENTER** button.

3. Press the ▲ or ▼ button to select **SW Upgrade**, and then press the **ENTER** button.
The message "**Scanning for USB. This may take more than 1min.**" is displayed.
4. The message "**Upgrade version XXXX to version XXXX? The system will be reset after upgrade.**" is displayed.
Press the ◀ or ▶ to select the **OK**, and then press the **ENTER** button.

Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the SW upgrade. Please check the SW version after the upgrades are complete.



Sound Bar

- **Samsung Sound-Bars and Hospitality TVs in 2013**

- Samsung Sound-Bars and hospitality TVs support the ARC feature in HDMI 1.4. If you connect a compatible Samsung Sound-Bar to a compatible Samsung hospitality TV using a single HDMI cable, guests can listen to the TV's sound through the Sound-Bar.
- Models supporting the ARC function are listed below:
 - Sound-Bars: HW-F350/F3553/FM35/F450/FM45/FM45C/F550/F551/FM55/FM55C/F750/F751

- **Setting the Sound-Bars to Hotel Mode.**

1. Set the following Hotel menu options:
 - Hotel option > External Device > Sound Bar Out = On.
 - Hotel option > Power On > Power On Volume EN = User Defined.
 - Hotel option > Power On > Power On Volume > Set greater than 0.
 - Hotel option > Power On > Max Volume > Set greater than 0.
2. Connect an HDMI cable from the HDMI OUT jack on the back of Sound-Bar to the HDMI3 port (supporting ARC) on the hospitality TV.
3. After the Sound-Bar is connected to the hospitality TV, when the TV turns on, the Sound-Bar automatically detects the TV, and then automatically switches to Hotel Mode.

Sound Bar Hotel mode functional characteristics:

- Power On/Off is synchronized with the TV
- HDMI_CEC defaults to On
- Functions through the "HDMI OUT" port only
- Disables the "Input mode" key on the VFD to prevent unexpected audio-source changes.
- Acquires adjustable Power On and Max Volume settings from the TV's Hotel option menu. The Sound-Bar's Power On Volume and Max Volume values, however, are ½ of the Power On Volume and Max Volume settings in the TV's Hotel option menu. Example: If the TV's Power On Volume=20 and Max Volume=90, then the Sound Bar's Power On Volume=10 and Max Volume=45.

Change PIN

The **Change PIN** screen will appear. Choose any 4 digits for your PIN and enter them in the **Enter New PIN** fields. Re-enter the same 4 digits in the **Confirm New PIN** fields. When the Confirm screen disappears, select **Close**. The TV has memorized your new PIN.

- **How to watch a restricted program or movie**

If the TV is tuned to a restricted program or movie, the Program Rating Lock will block it. The screen will go blank and a popup message appears. Enter the PIN to unlock the program or movie using your remote.

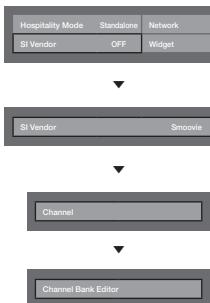
 If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode:
MUTE → 8 → 2 → 4 → **POWER** (power on). This resets the PIN to "0- 0-0-0".

Channel Bank Editor (Smoovie TV Only)

The Channel Bank Editor in conjunction with the SMOOVIE remote lets you control the channels guests have access to. The Channel Bank Editor provides three Banks of channels and lets you select which channels will be available from each bank. SMOOVIE remotes have installable Bank Cards which correspond to the channel banks in the Channel Bank Editor. The remotes only allow access to channels in the channel bank that correspond to the installed card. Consequently, the channels a guest can access depend on the Bank Card installed in their SMOOVIE remote.

Setting the CH Bank Editor under Stand-alone Mode

1. Press MUTE+1+1+9+Enter on the remote to enter the Hotel Standalone menu.
2. Please select SI vendor : “**Smoovie**”
3. Find the new menu option, “**Channel Bank Editor**”.
4. Enter the “**Channel Bank Editor**”.



- <Depending on model and region, some menu items may not exist>

5. Edit the Channel Bank. An example is below.
 - a. Bank1 (Free channel): Select the channels that will be accessible when a remote doesn't have a card.
 - b. Bank2 (Family Card - Green): Select the channels that will be accessible when a remote has a GREEN CARD.
 - c. Bank3 (Adult Card - Red): Select the channels that will be accessible when a remote has a RED CARD.

Channel Bank Edit				
Registered	Bank1 (4)	Bank2 (6)	Bank3 (36)	
All	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1 ABC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2 CBS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3 FOX	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4 NBX	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
5 CNN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6 CW	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7 HBO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8 TNT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Select All Items on Column Deselect All Items on Column Select/Deselect Return

Information About SMOOVIE Remote Controls

- If you select SMOOVIE as the SI vendor, you should also use SMOOVIE remotes in your facility.
- Guests with remotes that do not have a card can only view channels from Bank 1.
- Guests using the Numeric keys on the remote to change channels can only view channels from Bank 1.
- Guests with remotes that have Green or Red cards must use the channel up/down keys to change channels.
- Guests can only see channels from the Bank1 channel list In the Channel Guide or the Channel List,

Smoovie Set Up Sequence

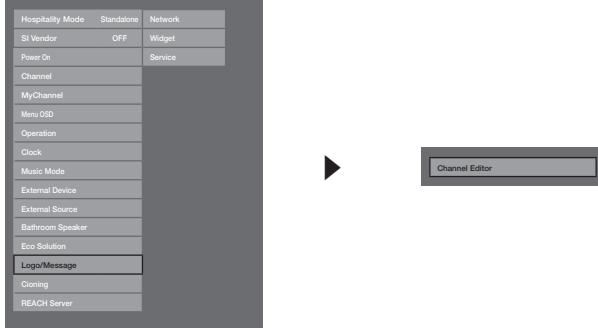
Smoovie TV Setup (Air/ Cable)		
Step	Only Air or Cable used	Only Air or Cable used
	If the TV starts with Hotel Plug&Play	If Hotel Plug&Play already done
1	Do a complete P&P (including Air or Cable auto tune)	Enter the Hotel menu
2	After P&P, the TV displays the Hotel menu	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable
3	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable	Select Smoovie TV in the Hotel menu
4	Select Smoovie TV in the Hotel menu	Select Channel Setup
5	Select Channel Setup (Can be skipped)	Select "Air" or "Cable" to auto tune
6	Select "Air" or "Cable" to auto tune. (Can be skipped.)	Set up channels in the CH Bank Editor
7	Set up channels in the CH Bank Editor	After power off & on, guests can use the TV
8	After power off & on, guests can use the TV	
9		
10		

Channel Editor

The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can:

- Change the channel numbers and names, and sort the channels in your desired channel number order.
- Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen.

The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.



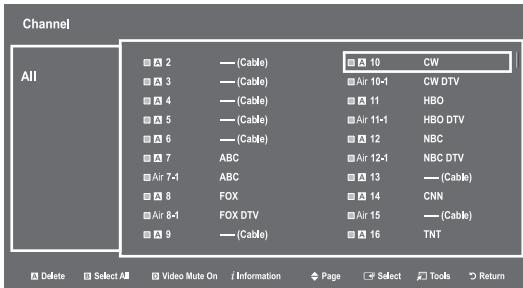
- <Depending on model and region, some menu items may not exist.>

General Steps for Using the Channel Editor in Stand-alone Mode

Step	Broad Outline
1	Run 'Channel Auto Store' in the Hotel Option Menu.
2	Enter 'Channel Editor' in the Hotel Option Menu.
3	On a piece of paper, compile a list of channels you want to have, arranged in the order you want.
4	Rearrange channels and edit channel names with the TOOLS Button based on the list you compiled.
5	Press the EXIT or RETURN Button to exit.

<For a detailed explanation of how Channel Editor works, see pages 34 through 36.>

The picture below shows a sample Channel Editor screen.



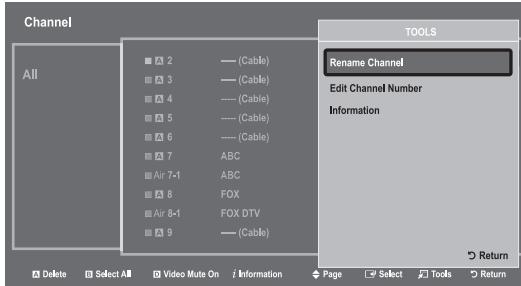
- **A** Indicates an analog channel.
- Channels without an **A** are digital channels.
- The guide at the bottom of the Channel Editor menu displays the remote buttons you need to press to apply Channel Editor functions.

- ❶ Using the remote's up or down arrow key, highlight the channel that you want edit.
 - To edit more than one channel, move the highlight to a channel, and then press the ENTER key. A check will appear in the check box next to the channel. Repeat for each channel you want to edit.
- ❷ To delete the channel or channels you selected from the channel list, press the red button on the remote.
 - To delete two or more channels simultaneously, selecte multiple channels in Step 1, and then press the red button on the remote.
- ❸ Press the green button on the remote to select all channels.
- ❹ To apply the video mute, press the yellow button on the remote.
 - To apply the video mute to two or more channels simultaneously, selecte multiple channels in Step 1, and then press the yellow button on the remote.
- ❺ To view information about a channel, including video mute set up, press the INFO button on the remote.
- ❻ Press the TOOLS button on the remote to rename a channel or change the channel number. See page 35.

Channel Editor Functions and Remote Buttons

- A** Red (Delete): Deletes a channel from the channel list.
- B** Green (Select All): Selects all channels at once.
- C** Yellow (Deselect All): Deselects all channels at once.
- D** Blue (Video Mute On/Off): Turns the Video Mute On/Off.
- ◆ (Page)**: Moves to next or previous page.
- i (Information)**: Display details of the selected program.
- 🔧 (Tools)**: Displays the option menu.
- ⟲ (Return)**: Returns to the previous step or exits.

When you press the **TOOLS** button, the following menu is available.



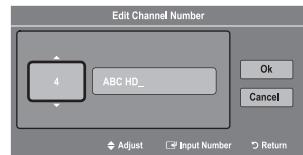
Edit Channel Number

Use Edit Channel Number to change the channel number of a channel you select.

To change a channel number, follow these steps:

1. Select a channel on the Channel Edit screen.
2. Press the Tools button on your remote.
3. Select Edit Channel Number in the Tools menu.
4. Use the up or down arrow keys to change the channel number.
5. Select **OK** when done, and then press the Enter button.

When you change the channel number, the channel information is not updated automatically.



Rename Channel

Use Rename Channel to change the name of a channel you select.

To change the name of a channel, follow these steps:

1. Select a channel on the Channel Edit screen.
2. Press the Tools button on your remote.
3. Select Rename Channel in the Tools menu.
4. Use the on-screen keyboard that appears to enter the new name for the channel. Use the arrow buttons on your remote to select a letter or number, and then press Enter. Repeat for each letter or number you want to select.
5. When finished, select Done on the bottom of the screen, and then press the Enter button.

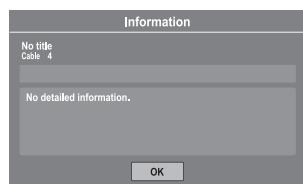


Information

Use Information to view information about a channel you select.

To view information about a channel, follow these steps:

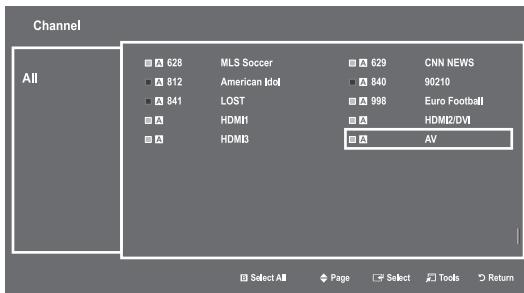
1. Select a channel on the Channel Edit screen.
2. Press the Tools button on your remote.
3. Select Information in the Tools menu.
4. Select **OK**, and then press the Enter button to close the Information screen.



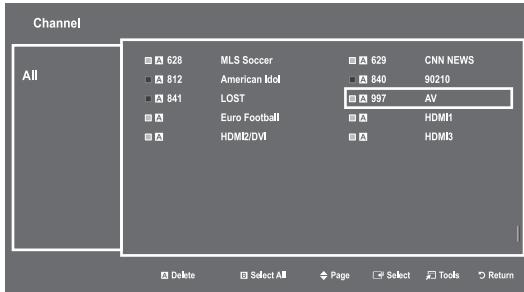
The external sources of this TV are displayed in the last page of the Channel Editor menu as shown in the example below.

In the example, there are two external sources connected to the TV, **HDMI2(DVI)** and **AV**.

- You can assign a new analog channel to an external source by selecting the source on the last page, pressing the Tools button, selecting Edit Channel Number, and then using the up or down arrow button on the remote to select the channel number of the analog channel.
- If you tune to a channel after assigning the channel to an external source, you can enter the external source without opening the TV source menu.



After assigning channel number 997 to the AV source.



Installing the Wall Mount



Wall or Ceiling Mounting

If you mount this product on a wall, it should be mounted only as recommended by the manufacturer. Unless it is correctly mounted, the product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

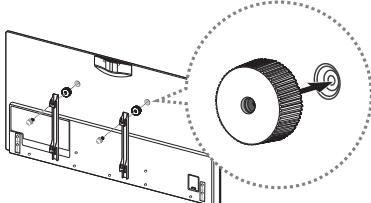
Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on a wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the TV on your own.

Installing a Wall Mount Using the Wall Mount Adapter

To install a wall-mount from another manufacturer, user the Holder-Ring.



☞ For more detailed information, refer to the User Manual of the Wall Mount Kit.

Wall Mount Kit Specifications (VESA)

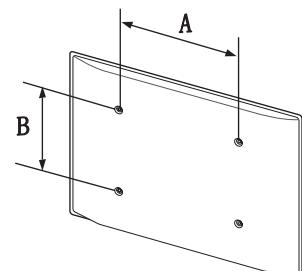
☞ The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. If you are attaching the wall mount to building materials other than plaster board, contact your nearest dealer. If installed on a ceiling or slanted wall, the TV may fall and cause severe personal injury.

NOTE

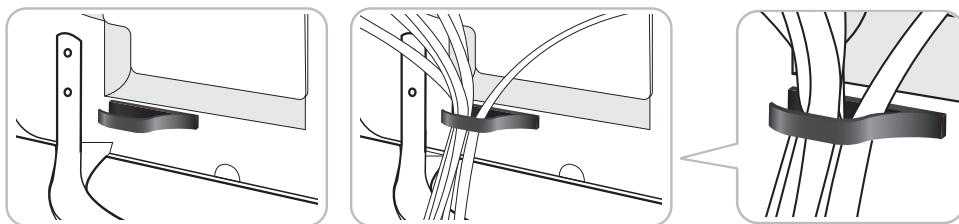
- Standard dimensions for wall mount kits are shown in the table below.
- Samsung wall mount kits contain a detailed installation manual. All parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV onto a wall.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw (Length* Pitch in mm)	Quantity
LED-TV [Ultra Slim]	46	200 x 200	M8	4
	55 ~ 65	400 x 400		

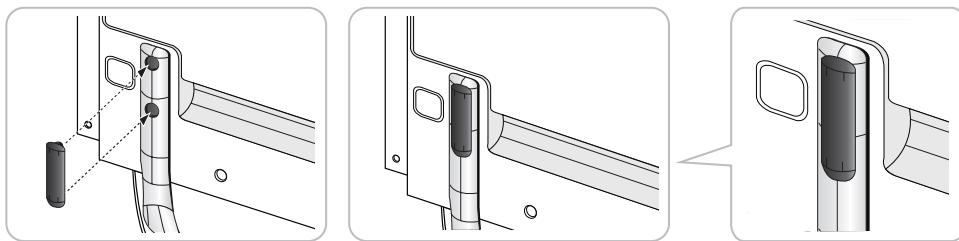


Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

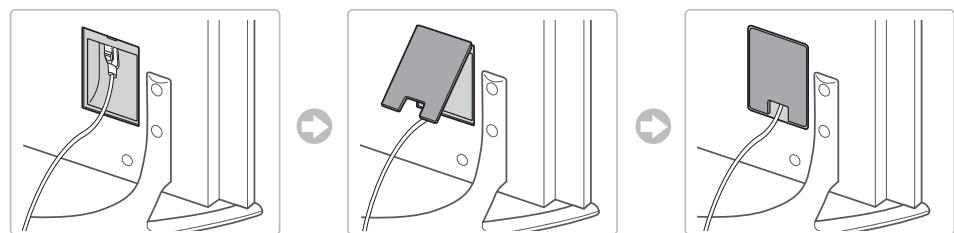
Assembling the Cable clip



Assembling the Screw Cover



Assembling the Power inlet Cover

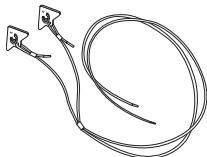


Securing the TV to the Wall



Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang on or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the Safety Flyer included with your TV. For added stability and safety, you can purchase and install the anti-fall device as described below.

Installing the TV-Holder Kit:



TV-Holder (BN96-15753A)

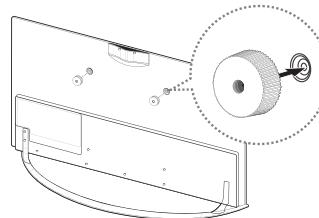


Holder

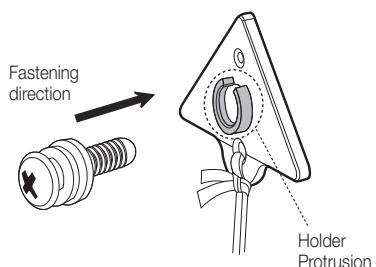


Screw (M8 X L28) 2ea

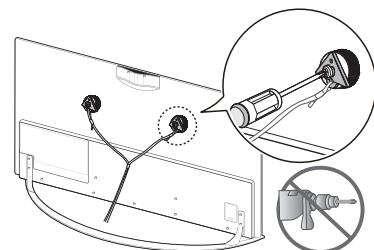
1. Screw the provided wall mount adapters on the back of the TV.



2. Insert the screw into the center of the TV-holder, as shown by the illustration.

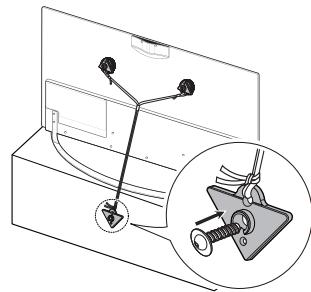


3. Tighten the TV-holders on the wall mount adapters, as shown by the illustration.



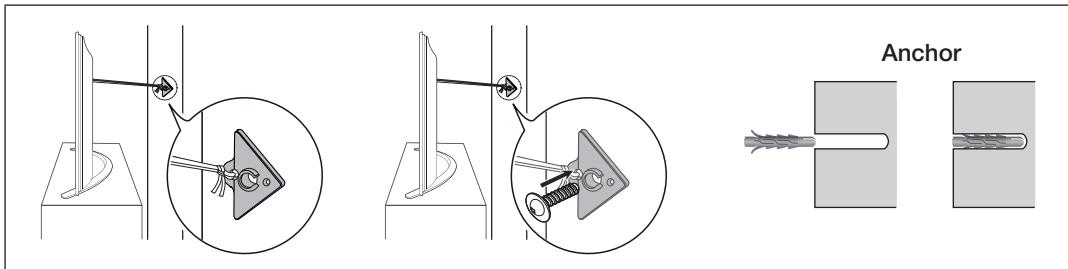
- Fasten the Holder to the cabinet using a wood screw.

 Using an M5 x L35 or a larger screw.



- Fasten the Holder with a screw the same way used when attaching it to a cabinet. Make sure to stretch the Holder cord tight. If the rack is made of steel or glass, attach the holder onto the wall.

 When attaching the holder onto a wall, use an anchor compatible with the wall's material. When attaching the holder onto a wall, use an anchor compatible with the wall material.



 Install the TV close to the wall so that it does not fall.
 When attaching the TV-Holder cord to the wall, tie the cord level with the ground or slanted downwards for safety purposes.
 Check the cord occasionally to make sure it is secure.
 Before moving the TV, separate the connected cord first.

- Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.

IMPORTANT INFORMATION

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

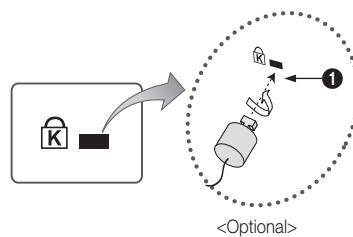
- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

Anti-theft Kensington Lock

The Kensington Lock is a device you can use to physically fix a TV to a location when you use it in a public place. The appearance and locking method may differ from the illustration at right, depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

The Kensington Lock is not supplied by Samsung.

 Please find the "K" icon on the rear of the TV. A Kensington slot is beside the "K" icon.



<Optional>

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product ①.
4. Lock the lock.

 These are general instructions. For exact instructions, see the User manual supplied with the locking device.

 The locking device has to be purchased separately.

 The location of the Kensington slot may be different depending on the TV model.

Display Resolution

Connect a computer to the TV and then configure the computer's resolution by referencing the table below. The optimal resolution is 1920 x 1080 @ 60Hz. Choosing an output signal not included in the table can result in a blank screen or just the power indicator being turned on. Refer to the user manual of the graphics card and configure the resolution as indicated below.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31.469	70.087	28.322	-/+
	640 x 480	35.000	66.667	30.240	-/-
MAC	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47.712	59.790	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1600 x 900RB	60.000	60.000	108.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/+
	1920 x 1080	67.500	60.000	148.500	+/+

NOTE

- The interlaced mode is not supported.
- The set might operate abnormally if you select a non-standard video format.
- Separate and Composite modes are supported. SOG (Sync On Green) is not supported.

Specifications

Display Resolution	1920 x 1080	
Environmental Considerations		
Operating Temperature	50°F to 104°F (10°C to 40°C)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-4°F to 113°F (-20°C to 45°C)	
Storage Humidity	5% to 95%, non-condensing	
Stand Swivel (Left / Right)	0°	
Model Name	HG46NB890	HG55NB890
Screen Size (Diagonal)	46" Class (45.9" measured diagonally)	55" Class (54.6" measured diagonally)
Sound (Output)	40W(10W x 2, Woofer 10W x 2)	
Dimensions (WxDxH)		
Body	40.6 x 1.3 x 23.6 inches (1032.7 x 34.9 x 599.5 mm)	48.1 x 1.3 x 27.8 inches (1224.2 x 34.9 x 707.2 mm)
With stand	40.6 x 10.1 x 24.9 inches (1032.7 x 257.7 x 634.3 mm)	48.1 x 12.2 x 29.2 inches (1224.2 x 310.3 x 741.9 mm)
Weight		
Without Stand	28.2 lbs (12.8 kg)	37.0 lbs (16.8 kg)
With Stand	30.8 lbs (14.0 kg)	40.3 lbs (18.3 kg)
Model Name	HG65NB890	
Screen Size (Diagonal)	65" Class (64.5" measured diagonally)	
Sound (Output)	40W(10W x 2, Woofer 10W x 2)	
Dimensions (WxDxH)		
Body	56.9 x 1.5 x 32.9 inches (1447.3 x 38.4 x 837.6 mm)	
With stand	56.9 x 14.5 x 34.3 inches (1447.3 x 330.3 x 876.0 mm)	
Weight		
Without Stand	54.2 lbs (24.6 kg)	
With Stand	59.3 lbs (26.9 kg)	

 Design and specifications are subject to change without prior notice.

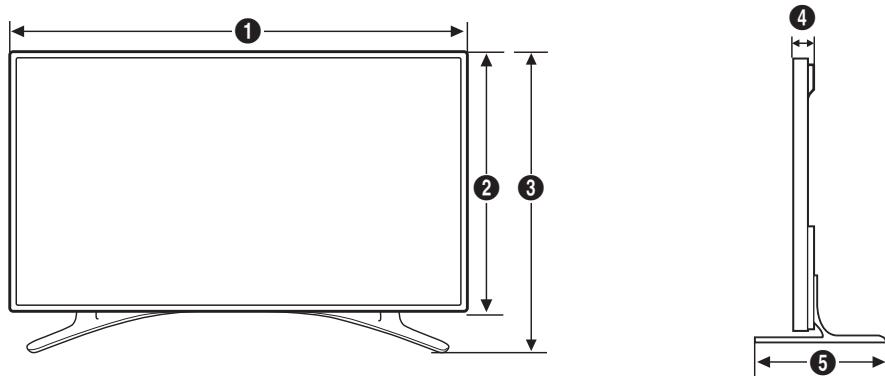
 This device is a Class B digital apparatus.

 For power supply and power consumption information, refer to the label attached to the product.

Dimensions

HG46NB890 / HG55NB890 / HG65NB890

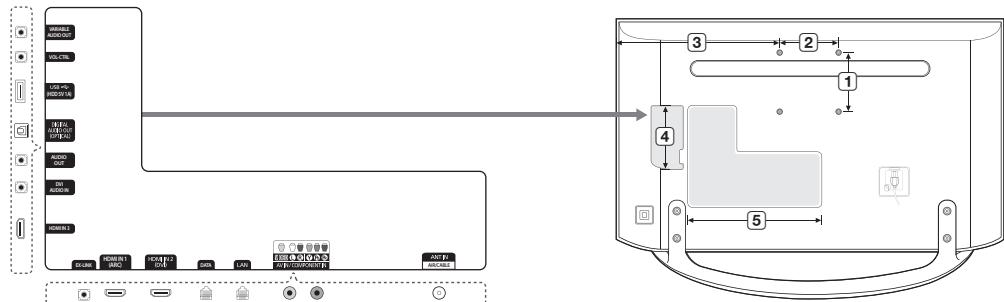
- Front view / Side view



(unit: Inches)

	①	②	③	④	⑤
HG46NB890	40.6	23.6	24.9	1.3	10.1
HG55NB890	48.1	27.8	29.2	1.3	12.2
HG65NB890	56.98	32.98	34.49	1.51	13.00

- Jack panel detail / Rear view



(unit: Inches)

	①	②	③	④	⑤
HG46NB890	7.8	7.8	16.3	5.6	10.7
HG55NB890	15.7	15.7	16.2	5.6	10.6
HG65NB890	15.7	15.7	20.6	5.6	12.7

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

- SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States : 1-866-894-0524

- In Canada : 1-800-213-8513

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